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    AUTH. NAME   AUTHOR AFFILIATION
  TUCKER, H. B.   Duke Power Co.
    RECIP. NAME   RECIPIENT AFFILIATION
                      Document Control Branch (Document Control Desk)

  SUBJECT: Responds to NRC 870505 request for addl info for completion
           of reveiw of util submittals re Item II.E.1.1 re ability to
           withstand tornado missiles.

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DUKE POWER COMPANY
P.O. BOX 33189
CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

July 17, 1987

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C.   20555

Subject: Oconee Nuclear Station
           Docket Nos. 50-269, -270, -287

Gentlemen:

By letter dated May 5, 1987 the NRC staff requested additional information to complete their review of Duke Power Company's submittals concerning the capability of the Oconee Emergency Feedwater System to withstand tornado generated missiles, item II.E.1.1 of NUREG-0737. In a letter dated June 25, 1987 the NRC was informed of a delay in the submittal of a response.

Please find attached Duke's response to your request for additional information.

Very truly yours,

Hal B. Tucker

MAH/ll/jgc

Attachment

xc: Dr. J. Nelson Grace
      Regional Administrator
      U.S. Nuclear Regulatory Commission - Region II
      101 Marietta St. NW
      Suite 2900 - Atlanta, GA   30323

      Ms. Helen Pastis
      Office of Nuclear Reactor Regulation
      U.S. Nuclear Regulatory Commission
      Washington, D.C.   20555

      Mr. J.C. Bryant
      NRC Resident Inspector
      Oconee Nuclear Station

A046

DUKE POWER COMPANY
OCONEE NUCLEAR STATION

PROTECTION OF EMERGENCY FEEDWATER SYSTEM
AGAINST TORNADO MISSILES AND HIGH WINDS
RESPONSE TO NRC REQUEST FOR ADDITIONAL INFORMATION
DATED MAY 5, 1987

REQUEST:

1.   The staff has some concerns regarding the use of the TORMIS code when
     calculating structural damage by tornado missiles. Please address the
     following:

     a.   The licensee should provide a list of buildings or structures which
          contain the EFWS and SSFASW and the tornado or wind speed causing damage
          to each such structure. Areas containing these systems with little or
          no tornado protection should also be identified.

     b.   For each of the Fujita scale tornado wind speed groupings, provide a
          listing of the various potential missiles which can be lifted. For
          those potential missiles provide a listing of the structures containing
          the EFWS and SSFASW which would be penetrated by these missiles.

     c.   The TORMIS code assumes a varying tornado intensity along the path
          length of each tornado. Reanalyze the TORMIS results using an
          assumption that the maximum tornado intensity estimated for each tornado
          is uniform along the entire estimated tornado area.

     d.   Show that your TORMIS study included the effect of secondary missiles
          and missile ricochet on equipment and structures, or provide new
          calculations which include such considerations. Note that this concern
          also includes the upper surge tanks.

     e.   The Oconee Probabilistic Risk Assessment (OPRA) considers tornado mean
          damage length and mean damage width (Vol. 1, page A-58, and Appendix K,
          page K-4) in developing the locus of impact points which is used to
          determine plant damage resulting from tornado missiles. This contrast's
          with the staff's opinion that a study of tornado missile damage should
          utilize separate, individual tornadoes and the damage lengths and widths
          associated with each tornado. Confirm that your TORMIS study made use
          of individual tornado damage lengths and widths to develop individual
          loci. If not, modify your TORMIS study to incorporate a separate,
          individual damage length and width for each tornado.

RESPONSE:

1a. The buildings and structures which contain the EFWS and the SSFASW are
     identified in the Final Safety Analysis Report (FSAR) for Oconee and the
     submittals provided by Duke letters dated November 19, 1982 and September 15,
     1986. The wind loads for which these structures are designed to withstand
     are listed in the Section 3.3 of the ONS FSAR. The ONS Turbine Building is
     recognized as providing little protection to its contents from
     tornado-generated missiles.

1b. Potential tornado missiles and their locations at the ONS site were determined by a site survey. This information is found in Table K-2A of the Oconee PRA (NSAC-60). Because each type of missile may be transported a significantly different distance for different F-scale tornado, the enclosed TORMIS results will allow an investigation into this matter. These outputs were produced as part of reanalyses performed to address Request number 1d (Attachment 1).

1c. The TORMIS code assumes that each simulated tornado possesses a constant maximum intensity along its entire path length.

1d. Duke's initial study did not include missile ricochet. Therefore, a reanalysis was performed (Attachment 1) to examine the effect of missile ricochets on damage probabilities. This reanalysis showed that accounting for missile ricochet, while slightly increasing the strike probability, does not cause the overall failure probability to exceed 1×10^{-6}. The probability of the generation of secondary missiles by a tornado missile striking a concrete structure can be conservatively estimated by the probability of wall spalling. The ejected fragments of wall material were conservatively assumed to fail equipment that is housed within the structure.

1e. The TORMIS computer code generates separate individual tornadoes. For each tornado F-scale analyzed, the simulated tornadoes all possess a different damage width that has been randomly chosen from within a range of possible values characteristic of the F-scale. Each tornado tracks completely across the plant site, maintaining continuous contact with the ground. The length of the damage path is dependent on the path taken across the plant site.

REQUEST:

2. The OPRA notes in Table K-6 that the upper surge tanks are susceptible to damage as a result of tornado missile strikes while your September 15, 1986 study states that the tanks are shielded by the reactor building. Reconcile these apparently contradictory statements.

RESPONSE:

The statements are not contradictory. The TORMIS analysis explicitly modeled the upper surge tanks as targets for tornado missiles. The Reactor Building provides shielding against tornado-generated missiles as the tornado approaches the plant from the southwest.

REQUEST:

3. Your evaluation included the possibility of high non-tornadic winds in the F_1 and F_2 tornado ranges (73-112 MPH and 113-157 MPH). However, these winds cover a far greater area than that associated with a tornado and should therefore be capable of generating far more missiles than tornado winds of the same velocity. Therefore, verify that your analysis is conservative by showing that tornado damage probability will increase by the ratios, $\frac{PW_1}{PF_1}$ and $\frac{PW_2R}{PF_2}$, where:

PW_1 = probability of wind at 90 mph, PF_1 = probability of tornado at 90 mph

PW_2 = probability of wind at 113 mph, PF_2 = probability of tornado at 113 mph

Otherwise, modify your analysis, accordingly.

RESPONSE:

A telephone conversation was held with Lawrence A. Twisdale of Applied Research Associates, Inc. on June 25, 1987. During this conversation Mr. Twisdale agreed that due to the difference in wind profiles for high winds versus tornadoes it is much less likely that a high wind will lift a potential missile. Literature on this subject supports this position. Therefore, it is conservative to model high winds as tornadoes for the purpose of missile generation. The ratios you mention in question #3 were used to account for the increase in damage probability.

REQUEST:

4. The OPRA study (Table K-6 which you cite) assumes that half the strikes for various components cause damage. Show that this assumption is conservative. Was a similar assumption, i.e., a specified portion of the missile strikes assumed to cause damage, used in the TORMIS study? If so, provide the justification for this latter assumption.

RESPONSE:

Analyses performed with the TORMIS computer code show that significantly less than half of the missile strikes result in structural damage. If 1.0 is used in lieu of the 0.5 value, the OPRA results are still below the specified probability of 1.0 E-6 per year. In the TORMIS analysis, a one-to-one correlation of missile strikes to equipment failure was assumed for the EFW pumps and upper surge tanks. Strikes to the east and west penetration rooms that did not damage the walls or ceiling were ignored. All other strikes were assumed to cause failure of the equipment within the impacted area.

REQUEST:

5. In an earlier submittal (November 19, 1982) you stated that a wind of 95 mph or greater would subject the turbine building to damage and you assumed that such damage would cause the EFWS to fail. Show that this assumption has been continued for the TORMIS and OPRA studies or justify its omission.

RESPONSE:

The analysis provided by a Duke letter dated September 15, 1986 addresses damage to the EFW System due to missiles only. The September 15, 1986 Duke letter was in response to the NRC request for additional information dated May 30, 1986.

REQUEST:

6. In the submittal of November 19, 1982, you assumed that EFWS and SSFASW equipment in the penetration rooms is assumed to fail when the respective room walls fail. Show that this assumption has been continued in the TORMIS and OPRA studies or justify its omission.

RESPONSE:

As stated in our response to Request number 4, the TORMIS analysis assumes that failure of a penetration room wall will result in failure of equipment in that room. The OPRA analysis also assumed that failure of a penetration room wall will result in failure of equipment in that room and assumed that 50 percent of the strikes on a wall will fail that wall.

REQUEST:

7. Discuss the fault trees used to derive the final damaging strike probability for the EFW system as noted in your September 15, 1986 submittal and provide some representative examples.

RESPONSE:

The EFW System, as described in the Oconee PRA, was reviewed for component susceptibility to missile strikes. This review produced the following areas that, if damaged, would prevent the EFW System from performing its function:

    a. the upper surge tanks
    b. the emergency feedwater pumps
    c. the east and west penetration rooms

The fault tree simply combines the failure probabilities of the three component groups described above.

REQUEST:

8. Table K-4 of the OPRA notes that both the east and west penetration areas can receive impacts from receding tornadoes in the northeast quadrant. In your September 15, 1986 submittal, however, it was assumed that their failures were independent of each other (multiplied probabilities of failure). Justify this apparent discrepancy.

RESPONSE:

As stated in Table K-4 of the OPRA, both the east and west penetration areas can receive impacts from receding tornadoes in the northeast quadrant. However, because of the physical orientation of the two areas, a single tornado-generated missile cannot strike both areas. Multiple, independent missiles from the same tornado are required for impacts on both areas. Since these impacts result from different missiles, east and west penetration area failures are independent of each other and there is no discrepancy.

REQUEST:

9. In your analysis of tornado missiles damaging EFW components, no mention is made of possible failure of emergency power for the EFW trains. Discuss this and justify this omission.

RESPONSE:

Failure of emergency power occurs when the CT-4 transformer room is damaged. The underground power line from the Keowee Hydro Station, which enters the station in the CT-4 room, is considered immune to missile damage. The CT-4 transformer room is made of 24" reinforced concrete and was modeled in the TORMIS analysis. The probability of damage to transformer CT-4 is insignificant.

REQUEST:

10. In your submittal of September 15, 1986 (page 4) you consider only the EFW pumps, upper surge tanks and both east and west penetration rooms for the TORMIS EFW study. Show that there are no other areas where the potential for failure of the EFWS exists as a result of high winds and/or tornadoes which should be included in your wind and missile strike analysis.

RESPONSE:

See our response to questions #7 and #9.

REQUEST:

11. Does your September 15, 1986 analysis consider the EFWS in Units 1, 2 and 3 to be identical? Show that your TORMIS study considered any differences which may exist.

RESPONSE:

Our September 15, 1986 analysis only looked at Unit 3. However, a reanalysis takes into consideration the differences in component location for the EFWS in Units 1, 2, and 3. The probability of missile damage to Unit 2 EFWS is the same as for Unit 3. Unit 1 EFWS has a lower probability due to the orientation of the penetration rooms. Other than location, the EFWS in each unit is the same.

REQUEST:

12. In your submittal of August 6, 1982, you note that the auxiliary service water (ASW) system has been specifically designed for tornado protection. Discuss such protection.

RESPONSE:

The ASW pump is located on the first floor of the auxiliary building (el. 771'-0", 25' below ground level) which is designed to be completely protected against the effects of a tornado. The piping from the ASW pump to the reactor building is

protected and/or separated to opposite sides of the reactor building. The power supply and switchgear for the ASW pump is also tornado protected. Power would be supplied via underground cables from the Keowee Hydroelectric station and transformer CT4 - which is protected by a reinforced concrete enclosure. It is these design features which will protect the ASW System from tornado damage.

REQUEST:

13. In response to our question regarding cold shocking of the dry steam generators by auxiliary service water (ASW) after a tornado damages the main and emergency feedwater systems, you note that it is not a concern because of the parallel of injecting cold emergency feedwater into the same location. However, the steam generator normally contains water when EFW is injected and is dry when ASW is injected. Provide details justifying your conclusion given this difference.

RESPONSE:

The steam generators contain a minimum water level when emergency feedwater (EFW) is injected, thus eliminating any possible concern over cold shocking the lower tube sheet. The rest of the shell side volume is occupied by hot steam. Auxiliary service water (ASW) would be injected into the steam generators at the same location as EFW. However, the steam generators would be initially dried-out, that is, containing all hot steam in the shell side volume. The ASW when injected would fall, the same as EFW, down from the upper tube region through the hot steam around the tubes, being preheated, before contacting the bottom of the steam generator at the lower tube sheet. Having EFW (and ASW) inject into the upper tube region is a design feature of the once through steam generator (OTSG) for the purpose of removing primary system energy at a high elevation to help the establishment of natural circulation. The result of this is that EFW (and ASW) become preheated as the water falls through the tube region, thus eliminating the concern of cold shocking the lower tube sheet.

DUKE POWER COMPANY

OCONEE NUCLEAR STATION

ATTACHMENT 1

TORNADO MISSILE HISTORIES

Target Summary

Target #	Target Structure
1	Unit 1 Reactor Building
2	Unit 2 Reactor Building
3	Unit 3 Reactor Building (RX-3)
4	SSF
5	Unit 1 West penetration room
6	Units 1 and 2 fuel handling structure
7	Units 1 and 2 fuel pool
8	Unit 2 West penetration room
9	Unit 3 West penetration room
10	Unit 1 Auxiliary Building
11	Unit 2 Auxiliary Building
12	Unit 3 Auxiliary Building (Control Room region)
13	Unit 3 Auxiliary Building (Volume beneath 3EPR)
14	Unit 3 East penetration room (3EPR)
15	Unit 3 Auxiliary Building (between Control Room and RX-3)
16	Unit 1 Turbine Building
17	Unit 2 Turbine Building
18	Unit 3 Turbine Building (TB-3)
19	Unit 3 Upper Surge Tanks
20	Region above Unit 3 EFW motor-driven pumps (TB-3)
21	Region above Unit 3 EFW turbine-driven pump (TB-3)
22	CT-4 transformer enclosure
23	Unit 3 fuel pool
24	Unit 3 fuel handling structure
25	Unit 3 borated water storage tank
26	Warehouse
27	Interum radwaste facility
28	Radwaste facility

Missile Identification

	Missile	Basic Set #	Missile Subset #
1.	Cars	25	1
2.	Trucks	25	2
3.	Trailer	25	3
4.	Utility poles	2	4
5.	Barrels	3	5
6.	1" dia. rods	1	6
7.	Concrete slabs	8	7
8.	Tree (10" dia. x 50')	26	8
9.	Tree (18" dia. x 75')	26	9
10.	Wire reels	3	10
11.	I-beam (4" x 10')	14	11
12.	I-beam (8" x 10')	14	12
13.	I-beam (12" x 10')	14	13
14.	Steel pipe (3" dia. x 5', x 10', x 20')	3	14
15.	Steel pipe (6" dia. x 5', x 10', x 20')	3	15
16.	Steel pipe (12" dia. x 5', x 10', x 20')	3	16
17.	Steel pipe (24" dia. x 5', x 20')	3	17
18.	Steel plate (4' x 8')	12	18
19.	Gas cylinders	3	19

Output Variables

1. NMIS   = Identification number of the sampled missile.

2. SET   = Missile basic set identification number.

3. SUBSET = Missile subset identification number.

4. XO
   YO   Plant site grid location of missile origin (in feet).

   ZO = Initial distance of a missile above the station grade level (in feet).

5. X1
   Y1   Missile location and altitude at end of missile movement (all units in feet).
   Z1

6. WAL = Target wall on which the missile impacts.

   If WAL < 0, the missile has impacted on the ground.

   If WAL = 0, the missile has not struck a target structure, and the missile history has been terminated (usually because the missile is moving away from the targets).

   If WAL > 0, the missile has impacted a target structure, on the structure wall identified.

7. TAR = Target structure on which the missile impacts.

   If TAR < 0, the missile has not struck a target structure, and the missile history has been terminated (usually because the missile is moving away from the targets).

   If TAR = 0, the missile has impacted on the ground.

   If TAR > 0, the missile has impacted the target structure identified by the TAR value.

   NOTE: If WAL < 0 and TAR > 0, the missile has impacted the ground near the target structure identified by TAR. The identified target has not been hit.

8. D1 = Penetration evaluation of missile impact.

   If D1 = 0, no penetration occurred.

   If D1 = 1, target TAR's wall was penetrated.

   If D1 = *, the missile shattered on impact.[1]

   [1] The following 10 missile summaries will have the same value for NMIS, and the splitting history function of TORMIS is used. Refer to pages III-27,28 of the TORMIS Computer Code Manual (EPRI NP-2005-CCM) for details.

9. NHT = The total number of missiles strikes on all targets when the current missile history is completed.

```
        4.00  0 0 0 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 1
149     1.00  1 1 1 1 0 1 0 1 1 1 0 1 1 0 1 1 1 1 1
        4.00  0 0 0 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 1
151     1.00  1 1 1 1 0 1 0 1 1 1 0 1 1 0 1 1 1 1 1
        4.00  0 0 0 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 1
152     1.00  1 1 1 1 0 1 0 1 1 1 0 1 1 0 1 1 1 1 1
        4.00  0 0 0 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 1
153     1.00  1 1 1 1 0 1 0 1 1 1 0 1 1 0 1 1 1 1 1
        4.00  0 0 0 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 1
154     1.00  1 1 1 1 0 1 0 1 1 1 0 1 1 0 1 1 1 1 1
        4.00  0 0 0 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 1
155     1.00  1 1 1 1 0 1 0 1 1 1 0 1 1 0 1 1 1 1 1
        4.00  0 0 0 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 1
```

TORNADO   1 PARAMETERS AND MISSILE HISTORY RESULTS

```
I,UMAX,UTRAN,WIDTH,TAU,YPOSET    1 0.114039E+03 0.547423E+02 0.247573E+03 0.220443E+01-0.616074E+03
TWT,PSTR,TWTP,YPLT,YPRT            0.131869E+01 0.127979E+01 0.168764E+01-0.616074E+03-0.863646E+03
SLOPE,GAMMA,DELTA,RR,RL,RMAX      0.159096E+00 0.856823E+00 0.408766E+03 0.247573E+03 0.0          0.990290E+02
```

NMIS	SET	SUB SET	LOD	XO	YO	ZO	OFFSET	X1	Y1	Z1	VMAX	ZMAX	VHIT	VE	WAL	TAR	D1	D2	D3	D4	DV	HWT	KEY	SF	IZ	NHT
1	3	14	64.3	1048.	-67.	17.	-188.	1022.	-63.	0.	43.2	17.4	43.2	0.0	-1	0	0	0	0	0	0	1.070	4	0	5	0
2	1	6	122.1	996.	93.	15.	-242.	992.	96.	0.	31.3	14.4	31.3	0.0	-1	26	0	0	0	0	0	0.585	4	0	5	0
3	3	14	51.4	870.	245.	18.	-230.	859.	261.	0.	48.5	18.2	48.5	0.0	-1	0	0	0	0	0	0	1.797	5	0	1	0
4	26	8	28.9	872.	25.	12.	-101.	869.	28.	0.	28.0	11.8	28.0	0.0	-1	0	0	0	0	0	0	18.954	4	0	5	0
5	3	15	12.2	596.	234.	19.	-3.	595.	235.	0.	34.0	18.6	34.0	0.0	-1	0	0	0	0	0	0	0.126	4	0	1	0
6	3	14	75.7	1236.	-326.	23.	-187.	1220.	-330.	0.	41.7	22.7	41.7	0.0	-1	0	0	0	0	0	0	0.886	4	0	5	0
7	25	1	2.4	828.	271.	14.	-212.	827.	273.	0.	28.4	13.5	28.4	0.0	-1	0	0	0	0	0	0	1.610	4	0	1	0
8	3	14	52.0	1061.	-115.	23.	-171.	1036.	-86.	0.	56.7	23.2	56.7	0.0	-1	0	0	0	0	0	0	4.364	4	0	5	0
9	1	6	412.6	1128.	-110.	23.	-228.	1121.	-110.	0.	37.3	23.2	37.3	0.0	-1	0	0	0	0	0	0	0.085	4	0	5	0
10	25	1	3.6	686.	219.	11.	-67.	684.	221.	0.	26.4	10.8	26.4	0.0	-1	0	0	0	0	0	0	0.376	4	0	1	0
11	3	14	58.1	1201.	-244.	12.	-208.	1185.	-225.	0.	40.6	12.3	40.6	0.0	-1	0	0	0	0	0	0	1.335	4	0	5	0
12	25	1	2.2	730.	212.	9.	-97.	728.	215.	0.	24.9	9.2	24.9	0.0	-1	4	0	0	0	0	0	0.416	4	0	1	0
13	25	1	1.5	898.	-64.	10.	-70.	897.	-60.	0.	24.7	9.6	24.7	0.0	-1	0	0	0	0	0	0	2.036	4	0	5	0
14	26	8	20.7	1167.	-328.	6.	-131.	1166.	-327.	0.	19.9	5.8	19.9	0.0	-1	0	0	0	0	0	0	29.268	4	0	5	0
15	8	7	4.0	843.	238.	12.	-204.	843.	239.	0.	27.6	11.9	27.6	0.0	-1	0	0	0	0	0	0	2.716	4	0	1	0
16	3	14	46.7	971.	18.	10.	-177.	969.	20.	0.	30.9	10.0	30.9	0.0	-1	26	0	0	0	0	0	7.420	5	0	5	0
17	1	6	502.2	1054.	-340.	22.	-32.	1055.	-333.	0.	37.8	21.7	37.8	0.0	-1	0	0	0	0	0	0	0.089	4	0	5	0
18	3	14	62.8	634.	283.	17.	-63.	627.	31C	0.	50.0	17.2	50.0	0.0	-1	6	0	0	0	0	0	1.867	4	0	1	0
19	26	8	28.2	-243.	1423.	33.	-30.	-248.	1433.	0.	45.8	32.9	45.8	0.0	-1	0	0	0	0	0	0	32.914	4	0	9	0
20	3	14	79.7	1055.	9.	18.	-239.	1045.	38.	0.	49.3	18.1	49.3	0.0	-1	26	0	0	0	0	0	5.211	4	0	5	0
21	3	14	49.2	617.	229.	22.	-17.	608.	261.	0.	53.2	22.2	53.2	0.0	-1	0	0	0	0	0	0	1.567	4	0	1	0
22	3	15	27.8	745.	272.	15.	-145.	744.	274.	0.	30.9	14.4	30.9	0.0	-1	11	0	0	0	0	0	0.150	5	0	1	0
23	3	14	40.2	707.	269.	24.	-112.	666.	288.	0.	58.5	24.2	58.5	0.0	-1	0	0	0	0	0	0	7.364	4	0	1	0
24	25	1	3.2	1377.	-588.	32.	-146.	1374.	-584.	0.	44.3	32.1	44.3	0.0	-1	0	0	0	0	0	0	0.349	4	0	12	0
25	1	6	192.0	859.	35.	9.	-97.	857.	38.	0.	25.1	8.8	25.1	0.0	-1	0	0	0	0	0	0	0.777	4	0	5	0
26	3	14	56.0	433.	668.	22.	-128.	423.	683.	0.	51.7	21.7	51.7	0.0	-1	16	0	0	0	0	0	0.711	5	0	2	0
27	1	6	853.8	1120.	-140.	15.	-204.	1115.	-137.	0.	29.9	15.2	29.9	0.0	-1	0	0	0	0	0	0	0.113	4	0	5	0
28	1	6	101.6	1126.	-287.	22.	-121.	1122.	-279.	0.	37.3	22.3	37.3	0.0	-1	0	0	0	0	0	0	0.087	4	0	5	0
29	3	14	32.2	277.	709.	12.	-27.	270.	709.	0.	29.3	12.2	29.3	0.0	-1	0	0	0	0	0	0	2.082	4	0	2	0
30	8	7	4.0	617.	202.	12.	-1.	617.	202.	0.	27.7	12.0	27.7	0.0	-1	0	0	0	0	0	0	0.539	4	0	1	0
31	1	6	360.6	976.	-91.	10.	-117.	975.	-89.	0.	27.2	9.8	27.2	0.0	-1	0	0	0	0	0	0	0.732	5	0	5	0
32	3	14	55.8	905.	33.	11.	-133.	902.	44.	0.	29.6	10.5	29.6	0.0	-1	0	0	0	0	0	0	7.310	4	0	5	0
33	14	12	44.3	260.	1006.	13.	-189.	260.	1006.	13.	3.6	12.5	3.6	0.0	0	-1	0	0	0	0	0	0.0	5	0	8	0
34	3	14	69.2	1204.	-182.	14.	-247.	1206.	-174.	0.	30.3	13.9	30.3	0.0	-1	0	0	0	0	0	0	1.237	4	0	5	0
35	3	14	51.7	963.	-51.	13.	-130.	955.	-28.	0.	39.4	13.1	39.4	0.0	-1	0	0	0	0	0	0	1.286	4	0	5	0
36	25	1	2.3	1002.	47.	6.	-219.	1001.	47.	0.	19.1	5.8	19.1	0.0	-1	26	0	0	0	0	0	0.547	4	0	5	0
37	3	14	73.8	1108.	-289.	13.	-106.	1105.	-276.	0.	41.4	12.9	41.4	0.0	-1	0	0	0	0	0	0	6.453	5	0	5	0
38	3	14	58.8	341.	660.	19.	-49.	329.	658.	0.	38.3	18.4	38.3	0.0	-1	0	0	0	0	0	0	0.800	5	0	2	0
39	3	14	50.1	707.	175.	14.	-57.	708.	186.	0.	35.8	13.8	35.8	0.0	-1	4	0	0	0	0	0	1.236	4	0	5	0
40	8	7	4.0	584.	277.	13.	-19.	584.	278.	0.	28.5	12.7	28.5	0.0	-1	5	0	0	0	0	0	2.598	4	0	1	0
41	3	14	43.0	647.	233.	19.	-43.	641.	265.	0.	52.4	18.5	52.4	0.0	-1	0	0	0	0	0	0	8.925	4	0	1	0
42	1	6	239.5	1107.	-188.	13.	-165.	1103.	-188.	0.	27.9	12.8	27.9	0.0	-1	0	0	0	0	0	0	0.126	4	0	5	0
43	26	8	29.9	1553.	-798.	32.	-162.	1546.	-791.	0.	45.1	31.7	45.1	0.0	-1	0	0	0	0	0	0	8.246	4	0	12	0
44	25	1	2.2	670.	230.	13.	-61.	667.	232.	0.	28.4	13.0	28.4	0.0	-1	0	0	0	0	0	0	0.330	4	0	1	0
45	1	6	343.5	1137.	-153.	16.	-210.	1137.	-150.	0.	30.2	15.6	30.2	0.0	-1	0	0	0	0	0	0	0.111	4	0	5	0
46	25	1	3.6	775.	123.	8.	-82.	774.	126.	0.	24.4	8.0	24.4	0.0	-1	4	0	0	0	0	0	0.455	5	0	5	0
47	3	14	71.9	792.	253.	25.	-172.	782.	268.	0.	53.8	24.3	53.8	0.0	-1	0	0	0	0	0	0	7.295	5	0	1	0
48	1	6	487.6	1082.	-217.	9.	-127.	1079.	-216.	0.	25.0	8.7	25.0	0.0	-1	0	0	0	0	0	0	0.780	4	0	5	0
49	3	14	26.0	1029.	-281.	21.	-47.	1023.	-259.	0.	38.2	20.8	38.2	0.0	-1	0	0	0	0	0	0	0.945	4	0	5	0
50	1	6	77.1	1004.	-62.	19.	-156.	1003.	-57.	0.	36.2	19.1	36.2	0.0	-1	0	0	0	0	0	0	0.486	5	0	5	0

```
 51  3 14   20.9   862.    109.   10.  -143.   851.   121.    0.  38.0   9.5  38.0  0.0 -1  0  0  0  0  0  0    1.539  4  0  5   0
 52  3 14   41.1   651.    194.   11.   -24.   640.   215.    0.  41.0  10.6  41.0  0.0 -1  0  0  0  0  0  0   16.229  4  0  3   0
 53  3 15   15.3   630.    291.   13.   -64.   630.   292.    0.  28.5  12.5  28.5  0.0 -1  6  0  0  0  0  0    0.163  4  0  1   0
 54  3 14   62.7   988.   -196.   19.   -64.   988.  -170.    0.  48.9  19.3  48.9  0.0 -1  0  0  0  0  0  0    4.963  4  0  5   0
 55  1  6  408.6   902.    -54.    9.   -79.   899.   -51.    0.  25.2   8.4  25.2  0.0 -1  0  0  0  0  0  0    0.159  4  0  5   0
 56  1  6  168.6   857.     75.   25.  -119.   855.    83.    0.  41.5  24.5  41.5  0.0 -1  0  0  0  0  0  0    0.081  5  0  5   0
 57  3 14   41.0   814.    295.   12.  -215.   801.   304.    0.  30.0  11.9  30.0  0.0 -1 11  0  0  0  0  0   11.850  4  0  1   0
 58  3 14   65.1   752.    233.   11.  -128.   750.   249.    0.  36.1  10.6  36.1  0.0 -1  0  0  0  0  0  0   12.612  4  0  1   0
 59  3 15   24.5   308.    832.   23.  -125.   308.   832.   23.   3.4  22.8   3.4  0.0  0 -1  0  0  0  0  0    0.0    5  0  8   0
 60  1  6  253.9   798.     57.   24.   -61.   794.    68.    0.  41.2  24.2  41.2  0.0 -1  0  0  0  0  0  0    0.082  5  0  5   0
 61 14 11   84.2   500.    727.    9.  -218.   499.   727.    0.  22.7   8.5  22.7  0.0 -1  0  0  0  0  0  0    4.766  4  0  2   0
 62  3 14   22.1   717.    240.   23.  -104.   705.   254.    0.  52.4  22.3  52.4  0.0 -1  0  0  0  0  0  0    7.764  5  0  1   0
 63  1  6  902.1  1019.     21.   15.  -217.  1018.    24.    0.  28.4  14.5  28.4  0.0 -1 26  0  0  0  0  0    0.117  4  0  5   0
 64 25  1    1.3   773.     -9.    8.    -2.   772.    -7.    0.  22.5   7.6  22.5  0.0 -1  0  0  0  0  0  0    2.345  4  0  5   0
 65 26  8   39.2  1095.   -236.   13.  -127.  1093.  -233.    0.  29.1  12.8  29.1  0.0 -1  0  0  0  0  0  0    3.573  4  0  5   0
 66 25  1    2.2   857.    240.   13.  -216.   854.   242.    0.  27.4  12.5  27.4  0.0 -1  0  0  0  0  0  0    0.339  4  0  1   0
 67 26  8   29.1  1249.   -267.    5.  -232.  1248.  -266.    0.  19.0   5.2  19.0  0.0 -1  0  0  0  0  0  0   30.908  4  0  5   0
 68  3 14   57.3   567.    673.   13.  -239.   561.   677.    0.  38.3  12.3  38.3  0.0 -1 16  0  0  0  0  0    1.031  5  0  2   0
 69 14 13   29.6  1103.   -330.   12.   -78.  1102.  -329.    0.  26.1  11.8  26.1  0.0 -1  0  0  0  0  0  0    0.658  4  0  5   0
 70  3 16   10.3   358.    709.   22.   -92.   358.   710.    0.  37.6  21.8  37.6  0.0 -1  0  0  0  0  0  0    0.076  5  0  2   0
 71 25  1    3.5   823.     36.   12.   -68.   820.    37.    0.  26.4  12.0  26.4  0.0 -1  0  0  0  0  0  0    1.752  4  0  5   0
 72 25  1    3.0  2040.  -1537.   30.  -118.  2032. -1530.    0.  44.8  29.7  44.8  0.0 -1  0  0  0  0  0  0    0.404  4  0 12   0
 73  3 14   74.1  1082.   -168.   19.  -157.  1082.  -156.    0.  41.0  18.5  41.0  0.0 -1  0  0  0  0  0  0    5.106  5  0  5   0
 74 25  1    1.8   223.   1124.   12.  -229.   223.  1124.   12.   3.2  12.2   3.2  0.0  0 -1  0  0  0  0  0    0.0    4  0  8   0
 75  3 14   51.8   649.    240.   14.   -49.   649.   261.    0.  35.8  13.5  35.8  0.0 -1  0  0  0  0  0  0   10.939  4  0  1   0
 76  3 15   22.6   663.    307.   22.  -100.   661.   310.    0.  37.5  22.3  37.5  0.0 -1  7  0  0  0  0  0    0.111  4  0  1   0
 77  3 14   71.1   625.    307.   24.   -69.   629.   318.    0.  43.3  23.3  43.3  0.0 -1  7  0  0  0  0  0    7.541  5  0  1   0
 78 25  1    3.1   774.    124.   12.   -81.   773.   124.    0.  27.0  12.3  27.0  0.0 -1  4  0  0  0  0  0    1.715  4  0  5   0
 79  1  6  601.2  1112.   -110.   15.  -215.  1111.  -108.    0.  33.3  14.6  33.3  0.0 -1  0  0  0  0  0  0    0.579  5  0  5   0
 80 26  8   39.8   836.    174.   12.  -160.   833.   177.    0.  28.1  11.9  28.1  0.0 -1  0  0  0  0  0  0   18.838  4  0  5   0
 81 14 13   22.9  1018.   -303.   22.   -25.  1017.  -299.    0.  37.2  22.1  37.2  0.0 -1  0  0  0  0  0  0    2.183  4  0  5   0
 82 14 13   35.1   865.   -119.   15.   -11.   864.  -118.    0.  30.9  14.9  30.9  0.0 -1  0  0  0  0  0  0    2.850  4  0  5   0
 83 26  9   43.8  1996.  -1335.   31.  -203.  1985. -1320.    0.  47.4  31.3  47.4  0.0 -1  0  0  0  0  0  0    1.058  4  0 12   0
 84  3 14   65.4   975.     -6.   24.  -166.   957.    28.    0.  53.2  23.4  53.2  0.0 -1 26  0  0  0  0  0    4.332  4  0  5   0
 85  3 14   56.3  1043.   -137.   23.  -144.  1012.  -129.    0.  50.6  23.3  50.6  0.0 -1  0  0  0  0  0  0    0.868  4  0  5   0
 86  1  6  588.4   991.   -140.   18.  -100.   993.  -135.    0.  33.5  18.0  33.5  0.0 -1  0  0  0  0  0  0    0.101  4  0  5   0
 87  8  7    4.0   861.    226.    7.  -212.   861.   226.    0.  21.7   7.2  21.7  0.0 -1  0  0  0  0  0  0    0.747  4  0  1   0
 88  3 15   33.6   630.    231.   14.   -28.   630.   233.    0.  30.3  14.2  30.3  0.0 -1  0  0  0  0  0  0    0.151  4  0  1   0
 89 14 12   25.2   274.    923.   20.  -152.   274.   923.   20.   3.5  20.2   3.5  0.0  0 -1  0  0  0  0  0    0.0    5  0  8   0
 90 26  8   34.0   902.    -17.    6.  -100.   901.   -16.    0.  19.7   5.6  19.7  0.0 -1  0  0  0  0  0  0   29.845  4  0  5   0
 91  3 14   50.9  1167.   -212.   21.  -199.  1159.  -214.    0.  35.3  20.8  35.3  0.0 -1  0  0  0  0  0  0    0.943  4  0  5   0
 92  8  7    4.0   917.    207.    6.  -245.   916.   208.    0.  18.8   5.4  18.8  0.0 -1 26  0  0  0  0  0    0.876  4  0  1   0
 93  8  7    4.0   716.    204.    8.   -82.   716.   204.    0.  23.1   8.3  23.1  0.0 -1  4  0  0  0  0  0    0.690  4  0  1   0
 94  1  6  750.6   215.    885.   21.   -82.   215.   885.   21.   3.0  21.3   3.0  0.0  0 -1  0  0  0  0  0    0.0    4  0  8   0
 95  1  6  657.2  1218.   -321.   15.  -176.  1214.  -322.    0.  30.8  14.8  30.8  0.0 -1  0  0  0  0  0  0    0.115  4  0  5   0
 96  1  6  343.6  1004.      6.   10.  -196.  1004.     6.    0.  23.9  10.1  23.9  0.0 -1 26  0  0  0  0  0    0.144  4  0  5   0
 97 26  8   22.8  1104.   -225.   15.  -140.  1101.  -222.    0.  31.1  14.7  31.1  0.0 -1  0  0  0  0  0  0    3.234  4  0  5   0
 98  3 14   55.5   639.    187.   23.    -9.   621.   215.    0.  49.2  22.4  49.2  0.0 -1  0  0  0  0  0  0    9.987  4  0  3   0
 99  8  7    4.0   811.    234.   12.  -176.   810.   234.    0.  27.0  11.5  27.0  0.0 -1  0  0  0  0  0  0    0.555  4  0  1   0
100  3 14   32.1   727.     66.   23.    -9.   726.    97.    0.  51.2  22.9  51.2  0.0 -1  4  0  0  0  0  0    0.880  4  0  5   0
101  1  6  187.1   921.   -120.   25.   -55.   913.  -109.    0.  42.2  24.9  42.2  0.0 -1  0  0  0  0  0  0    0.081  4  0  5   0
102  3 14   69.1   833.     41.   19.   -79.   808.    69.    0.  55.1  18.4  55.1  0.0 -1  0  0  0  0  0  0    5.141  4  0  5   0
103  3 14   46.4  1066.    -75.   14.  -199.  1057.   -61.    0.  43.2  13.8  43.2  0.0 -1  0  0  0  0  0  0    6.192  5  0  5   0
104  3 14   54.1   981.   -174.   13.   -72.   968.  -148.    0.  44.5  12.8  44.5  0.0 -1  0  0  0  0  0  0    1.304  4  0  5   0
105 26  8   25.1  1821.  -1149.   30.  -171.  1815. -1142.    0.  43.9  29.9  43.9  0.0 -1  0  0  0  0  0  0    9.216  4  0 12   0
106  3 14   21.0   918.     97.   19.  -181.   916.   100.   16.  23.9  19.3  23.9  6.0140 26  0  0  0  0  0  0    0.992  5  0  5   1
106  3 14   21.0   918.     97.   19.  -181.   907.   100.    1.  38.3  19.3  38.3  8.8140 26  0  0  0  0  0  0    0.992  5  0  5   2
107  1  6  309.4  1012.   -218.   24.   -71.  1003.  -214.    0.  37.9  24.2  37.9  0.0 -1  0  0  0  0  0  0    0.082  4  0  5   0
108  3 14   27.1  1136.   -141.   24.  -216.  1108.  -109.    0.  54.5  23.6  54.5  0.0 -1  0  0  0  0  0  0    0.861  4  0  5   0
109 26  8   39.6  1789.  -1050.   29.  -204.  1784. -1043.    0.  42.8  28.6  42.8  0.0 -1  0  0  0  0  0  0   10.141  4  0 12   0
110  8  7    4.0   698.    272.   14.  -108.   698.   272.    0.  29.5  13.5  29.5  0.0 -1  8  0  0  0  0  0    2.482  4  0  1   0
111  3 14   72.9  1121.   -210.   21.  -163.  1095.  -180.    0.  50.2  21.2  50.2  0.0 -1  0  0  0  0  0  0    0.932  4  0  5   0
112  3 14   64.1   976.     41.   10.  -194.   968.    47.    0.  37.9   9.7  37.9  0.0 -1 26  0  0  0  0  0    7.577  5  0  5   0
113  1  6  936.4  1242.   -346.   10.  -180.  1239.  -347.    0.  24.8  10.0  24.8  0.0 -1  0  0  0  0  0  0    0.145  4  0  5   0
114 14 11   24.4   387.    683.   16.  -100.   385.   682.    0.  32.3  15.8  32.3  0.0 -1  0  0  0  0  0  0    0.665  5  0  2   0
115 14 13   16.3   422.    732.   10.  -157.   421.   732.    0.  24.5   9.4  24.5  0.0 -1  0  0  0  0  0  0    0.322  4  0  2   0
116  3 14   68.1  1161.   -130.   23.  -243.  1146.  -135.    0.  41.8  23.1  41.8  0.0 -1  0  0  0  0  0  0    0.874  4  0  5   0
117  3 14   68.6  1016.    -97.   22.  -145.   989.   -94.    0.  47.0  21.7  47.0  0.0 -1  0  0  0  0  0  0    0.913  4  0  5   0
118  3 15   32.1   588.    248.   20.    -5.   587.   252.    0.  35.4  20.1  35.4  0.0 -1  0  0  0  0  0  0    0.120  4  0  1   0
119 26  9   28.5  1850.  -1410.   30.   -39.  1842. -1392.    0.  47.0  30.2  47.0  0.0 -1  0  0  0  0  0  0    1.138  4  0 12   0
120  3 14   55.3   990.    -63.   14.  -145.   974.   -56.    0.  41.2  14.1  41.2  0.0 -1  0  0  0  0  0  0    6.120  4  0  5   0
121  3 14   54.7  1047.   -152.   24.  -138.  1034.  -112.    0.  51.9  24.0  51.9  0.0 -1  0  0  0  0  0  0    0.852  4  0  5   0
122 26  8   37.4   961.   -207.   11.   -35.   959.  -204.    0.  27.2  11.1  27.2  0.0 -1  0  0  0  0  0  0   19.776  4  0  5   0
123 25  1    3.7   317.   1020.    7.  -243.   316.  1022.    0.  20.7   6.4  20.7  0.0 -1  0  0  0  0  0  0    5.180  4  0  8   0
```

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124  ?  6  781.5   846.    39.  22.  -89.   845.    48.   0.  39.2  22.2  ?     0.0 -1  0  0  0  0  0  0   0.088  5  0   5  0
125  ? 14   55.6  1201.  -191.  22. -239.  1191.  -169.   0.  48.3  21.6  48.3  0.0 -1  0  0  0  0  0  0   0.922  4  0   5  0
126  3 14   50.5   951.  -109.  25.  -85.   919.   -77.   0.  61.4  24.8  61.4  0.0 -1  0  0  0  0  0  0   4.150  4  0   5  0
127  1  6  789.8   821.    11.  13.  -52.   820.    17.   0.  30.3  13.0  30.3  0.0 -1  0  0  0  0  0  0   0.125  4  0   5  0
128  3 14   48.6   713.   272.  20. -120.   709.   280.  15.  31.3  19.5  31.3  7.8 35  8  0  0  0  0  0   1.717  4  0   1  3
128  3 14   48.6   713.   272.  20. -120.   698.   278.   0.  36.5  19.5  36.5  0.0 -1  8  0  0  0  0  0   1.717  4  0   1  3
129  3 14   36.7   988.    64.  21. -218.   968.    90.   0.  48.7  20.5  48.7  0.0 -1 26  0  0  0  0  0   0.953  4  0   5  0
130  3 15   31.7   306.   726.  13.  -61.   306.   728.   0.  29.5  13.0  29.5  0.0 -1  0  0  0  0  0  0   1.394  5  0   2  0
131  3 14   60.6  1098.  -302.  20.  -90.  1099.  -289.   0.  42.5  19.5  42.5  0.0 -1  0  0  0  0  0  0   4.924  5  0   5  0
132  3 14   69.6  1039.    10.  18. -228.  1024.    27.   0.  49.5  18.0  49.5  0.0 -1 26  0  0  0  0  0   5.192  5  0   5  0
133  1  6  758.3  1008.  -161.  19. -101.  1002.  -158.   0.  32.9  18.7  32.9  0.0 -1  0  0  0  0  0  0   0.099  4  0   5  0
134 14 13   30.6  1219.  -339.  24. -165.  1219.  -336.   0.  39.1  24.2  39.1  0.0 -1  0  0  0  0  0  0   0.408  5  0   5  0
135  1  6  437.6   870.    60.  20. -120.   871.    62.   0.  36.3  19.5  36.3  0.0 -1  0  0  0  0  0  0   0.786  4  0   1  0
136  3 15   34.1   899.   211.  13. -233.   898.   213.   0.  29.0  13.3  29.0  0.0 -1  0  0  0  0  0  0   0.113  4  0   1  0
137  3 15   29.4   680.   203.  22.  -52.   678.   206.   0.  37.1  21.8  37.1  0.0 -1  4  0  0  0  0  0   0.911  4  0   5  0
138  3 14   32.6  1142.  -107.  22. -241.  1120.  -108.   0.  42.1  21.8  42.1  0.0 -1  0  0  0  0  0  0   0.479  5  0   5  0
139 14 12   79.0   320.   955.  22. -208.   320.   955.  22.   3.7  22.0   3.7  0.0  0 -1  0  0  0  0  0  0   0.0   5  0   8  0
140 14 11   84.1  2169. -1711.  32. -119.  2164. -1703.   0.  46.1  31.8  46.1  0.0 -1  0  0  0  0  0  0   0.952  5  0  13  0
141  3 14   24.6   570.   278.  17.   -8.   569.   280.  15.  16.9  16.6  16.9  5.4 17  5  0  0  0  0  0   1.915  4  0   1  4
141  3 14   24.6   570.   278.  17.   -8.   569.   280.  14.  18.7  16.6  18.7  0.0 17  5  0  0  0  0  0   1.915  4  0   1  5
142  3 14   54.0   363.   571.  19.  -14.   364.   588.   0.  46.5  18.4  46.5  0.0 -1 16  0  0  0  0  0   0.799  5  0   2  0
143  8  7    4.0   842.   258.  13. -215.   842.   258.   0.  28.4  12.5  28.4  0.0 -1  0  0  0  0  0  0   0.524  4  0   2  0
144  3 15   20.7   290.   676.  11.  -18.   290.   676.   0.  26.2  10.6  26.2  0.0 -1  0  0  0  0  0  0   1.569  4  0   2  0
145  2  4   40.8   625.   232.  13.  -25.   623.   233.   0.  28.1  12.5  28.1  0.0 -1  0  0  0  0  0  0   0.525  4  0   1  0
146 25  1    1.7  1023.    14.  13. -217.  1021.    17.   0.  28.1  13.1  28.1  0.0 -1 26  0  0  0  0  0   0.329  4  0   5  0
147  3 14   32.9   889.   195.  12. -216.   874.   209.   0.  41.8  12.2  41.8  0.0 -1  0  0  0  0  0  0   1.337  4  0   5  0
148 14 13   28.0  1099.  -115.  18. -201.  1096.  -112.   0.  33.1  17.6  33.1  0.0 -1  0  0  0  0  0  0   0.512  4  0   5  0
149  3 15   34.0   592.   355.  22.  -71.   590.   359.   0.  38.2  22.3  38.2  0.0 -1 10  0  0  0  0  0   0.111  5  0   1  0
150 14 12   33.7   267.   797.  14.  -71.   266.   796.   0.  30.3  14.0  30.3  0.0 -1  0  0  0  0  0  0   0.710  5  0   8  0
151  3 14   24.8  1215.  -330.  18. -168.  1205.  -303.   0.  44.1  17.9  44.1  0.0 -1  0  0  0  0  0  0   5.236  4  0   5  0
152  3 14   39.5   869.   264.  16. -241.   847.   277.   0.  41.6  16.2  41.6  0.0 -1  0  0  0  0  0  0   1.947  4  0   1  0
153  3 14   36.6   307.   917.  23. -175.   307.   917.  23.   5.9  23.2   5.9  0.0  0 -1  0  0  0  0  0  0   0.0   5  0   8  0
154  3 14   53.3   862.    61.  16. -114.   837.    71.   0.  45.4  15.4  45.4  0.0 -1  0  0  0  0  0  0   1.156  4  0   5  0
155  1  6  558.5   911.  -116.  11.  -49.   909.  -112.   0.  28.6  10.5  28.6  0.0 -1  0  0  0  0  0  0   0.141  5  0   5  0
156 26  8   47.4  1048.  -167.  12. -130.  1046.  -164.   0.  28.2  11.9  28.2  0.0 -1  0  0  0  0  0  0   3.756  4  0   5  0
157  3 14   67.4   903.   -28.  12.  -95.   888.   -12.   0.  45.1  11.8  45.1  0.0 -1  0  0  0  0  0  0   6.804  4  0   5  0
158  3 14   25.1  1002.  -291.  22.  -19.   986.  -254.   0.  53.5  21.7  53.5  0.0 -1  0  0  0  0  0  0   0.919  4  0   5  0
159 14 12   52.3   406.   839.  23. -208.   406.   839.  23.   5.5  23.2   5.5  0.0  0 -1  0  0  0  0  0  0   0.0   4  0   8  0
160 14 13   52.4   306.   685.  11.  -36.   307.   686.   0.  27.7  11.2  27.7  0.0 -1  0  0  0  0  0  0   0.291  5  0   2  0
161 14 13   49.5  1224.  -332.  20. -173.  1224.  -330.   0.  34.9  20.1  34.9  0.0 -1  0  0  0  0  0  0   0.467  4  0   5  0
162 25  1    4.0   289.  1065.  14. -247.   287.  1065.   0.  30.2  13.9  30.2  0.0 -1  0  0  0  0  0  0   0.628  5  0   8  0
163  3 17    8.1  2367. -1796.  34. -228.  2367. -1795.   0.  46.1  33.4  46.1  0.0 -1  0  0  0  0  0  0   0.909  4  0  13  0
164  3 14   45.3  1119.  -128.  22. -210.  1099.  -112.   0.  43.3  22.0  43.3  0.0 -1  0  0  0  0  0  0   0.330  5  0   5  0
165 25  1    1.4  1139.  -153.  13. -212.  1137.  -151.   0.  29.5  13.0  29.5  0.0 -1  0  0  0  0  0  0   4.226  4  0   5  0
166  3 14   64.3   961.  -131.  24.  -81.   929.  -115.   0.  52.2  24.2  52.2  0.0 -1  0  0  0  0  0  0   2.324  4  0  12  0
167 25  1    3.3  1144.  -426.  28.  -53.  1139.  -426.   0.  41.0  27.8  41.0  0.0 -1  0  0  0  0  0  0   0.500  4  0   5  0
168  1  6  447.8   875.    28.  19. -106.   870.    29.   0.  32.4  18.4  32.4  0.0 -1  0  0  0  0  0  0   2.393  4  0   5  0
169 14 13   22.8   903.  -147.  20.  -25.   904.  -146.   0.  34.9  19.4  34.9  0.0 -1  0  0  0  0  0  0   0.302  4  0   5  0
170 25  1    2.0  1155.  -215.  15. -188.  1153.  -214.   0.  30.3  14.7  30.3  0.0 -1 26  0  0  0  0  0   5.111  4  0   5  0
171  3 14   34.9  1064.     9.  19. -247.  1041.    16.   0.  42.5  18.5  42.5  0.0 -1  0  0  0  0  0  0   0.597  4  0   1  0
172  8  7    4.0   818.   221.  11. -174.   818.   222.   0.  25.8  10.4  25.8  0.0 -1  0  0  0  0  0  0   0.087  4  0   5  0
173  1  6  200.9   894.   -93.  23.  -49.   886.   -84.   0.  38.5  22.5  38.5  0.0 -1  0  0  0  0  0  0   4.944  4  0   2  0
174  3 15   39.4   350.   609.  22.  -26.   347.   612.   0.  37.0  21.8  37.0  0.0 -1  0  0  0  0  0  0   3.604  4  0   5  0
175 26  8   24.0   972.  -197.  13.  -51.   970.  -193.   0.  29.1  12.7  29.1  0.0 -1  0  0  0  0  0  0   7.785  4  0   1  0
176  3 14   56.7   750.   220.  23. -119.   716.   236.   0.  49.5  22.4  49.5  0.0 -1  4  0  0  0  0  0   1.213  4  0   5  0
177  3 14   37.1   751.    83.  14.  -38.   750.    95.   0.  37.7  14.3  37.7  0.0 -1  4  0  0  0  0  0   0.325  4  0  12  0
178 25  1    2.1  1889. -1490.  33.  -24.  1882. -1483.   0.  46.0  33.3  46.0  0.0 -1  0  0  0  0  0  0   0.049  5  0   8  0
179  1  6  358.6   337.   854.  25. -161.   330.   854.   0.  41.1  24.4  41.1  0.0  0 -1  0  0  0  0  0  0   0.0   4  0   2  0
180  3 14   46.4   246.   716.  22.   -6.   246.   716.  22.   2.0  22.2   2.0  0.0 -1  4  0  0  0  0  0   0.119  4  0   1  0
181  3 15   30.1   708.   215.  21.  -82.   706.   218.   0.  35.9  20.4  35.9  0.0 -1  0  0  0  0  0  0   0.509  5  0   1  0
182 25  1    3.6   767.   250.   7. -150.   765.   253.   0.  22.1   6.6  22.1  0.0 -1  0  0  0  0  0  0   1.588  4  0   1  0
183  3 14   62.7   851.  -208.  22. -208.   822.   254.   0.  54.5  21.8  54.5  0.0 -1  0  0  0  0  0  0   0.427  4  0   5  0
184  1  6  189.0  1142.  -208.  23. -181.  1135.  -206.   0.  38.3  23.0  38.3  0.0 -1  0  0  0  0  0  0   1.285  5  0   5  0
185  3 14   46.7   891.    28.  13. -118.   882.    43.  15.  44.2  13.0  44.2  0.0  0 -1  0  0  0  0  0  0   0.0   4  0   2  0
186  3 14   66.7   253.   742.  15.  -27.   253.   742.  15.   5.7  14.5   5.7  0.0 -1  0  0  0  0  0  0   1.398  4  0   5  0
187  3 14   52.5  1009.  -203.  11.  -77.  1010.  -189.   0.  31.6  11.3  31.6  0.0 -1  0  0  0  0  0  0   0.084  4  0   5  0
188  1  6  118.2  1183.  -182.  24. -229.  1175.  -179.   0.  38.0  23.6  38.0  0.0 -1  0  0  0  0  0  0   0.649  4  0   1  0
189  3 15   35.8   731.   257.  18. -125.   731.   258.   0.  33.7  17.9  33.7  0.0 -1  0  0  0  0  0  0   2.299  4  0   5  0
190 14 13   30.8  1055.  -275.  21.  -72.  1052.  -275.   0.  35.7  20.5  35.7  0.0 -1  0  0  0  0  0  0   0.080  5  0   8  0
191  1  6  749.5   220.   884.  12.  -85.   220.   887.   0.  29.5  11.5  29.5  0.0 -1  0  0  0  0  0  0   0.274  4  0  12  0
192 26  9   30.7  1615. -1064.  28.  -56.  1606. -1048.   0.  45.6  27.5  45.6  0.0 -1  0  0  0  0  0  0   0.915  5  0   5  0
193  3 14   78.0   894.    -4.  22.  -30.   794.    27.   0.  55.6  21.7  55.6  0.0 -1  0  0  0  0  0  0   9.609  4  0   1  0
194  3 14   42.7   897.   202.  17. -226.   882.   228.   0.  46.3  16.6  46.3  0.0 -1  0  0  0  0  0  0   8.085  4  0   1  0
195  3 15   18.3   351.   601.  10.  -23.   350.   602.   0.  25.2  10.0  25.2  0.0 -1  0  0  0  0  0  0   8.085  4  0   2  0
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268 14 13  59.0   824.   175.   12.  -152.   822.   178.    0.  27.2  11.6  27.2   0.0 -1  4  0  0  0  0  0   3.313  4  0  5   0
269  1  6 200.8   244.  1049.   24.  -202.   244.  1049.   24.   3.0  23.6   3.0   0.0  0 -1  0  0  0  0  0   0.0    4  0  8   0
270  3 14  53.0   721.   190.   16.   -77.   700.   192.    0.  43.0  16.1  43.0   0.0 -1  4  0  0  0  0  0   5.620  4  0  5   0
271 25  1   1.9   654.   224.    9.   -44.   653.   227.    0.  25.2   9.1  25.2   0.0 -1  0  0  0  0  0  0   0.421  5  0  1   0
272 26  8  37.2  1304.  -431.   34.  -180.  1297.  -423.    0.  46.4  33.7  46.4   0.0 -1  0  0  0  0  0  0  36.809  4  0 12   0
273  3 14  33.7   225.  1059.   20.  -192.   225.  1059.   20.   6.0  19.6   6.0   0.0  0 -1  0  0  0  0  0   0.0    5  0  8   0
274  3 14  75.6   593.   257.   19.   -14.   577.   280.    4.  48.4  18.5  48.4  25.1 17  5  0  0  0  0  0   1.785  4  0  1   8
274  3 14  75.6   593.   257.   19.   -14.   574.   279.    0.  48.4  18.5  44.6   0.0 -1  5  0  0  0  0  0   1.785  4  0  1   8
275  3 14  71.1  1147.  -193.   17.  -194.  1138.  -197.    0.  35.9  17.3  35.9   0.0 -1  0  0  0  0  0  0   1.070  4  0  5   0
276  8  7   4.0   879.   223.   14.  -224.   879.   223.    0.  30.1  14.1  30.1   0.0 -1  0  0  0  0  0  0   0.480  4  0  1   0
277  3 14  49.9   975.  -262.   23.   -14.   973.  -226.    0.  54.0  22.9  54.0   0.0 -1  0  0  0  0  0  0   0.883  4  0  5   0
278  3 14  49.1   848.    40.   24.   -91.   808.    67.    0.  58.4  23.8  58.4   0.0 -1  0  0  0  0  0  0   0.856  4  0  5   0
279  3 14  39.9   232.  1015.   15.  -172.   219.  1014.    0.  37.9  14.7  37.9   0.0 -1  0  0  0  0  0  0   2.879  5  0  8   0
280 25  1   3.3  1312.  -408.   29.  -199.  1306.  -407.    0.  42.7  28.9  42.7   0.0 -1  0  0  0  0  0  0   0.427  4  0 12   0
281  3 14  47.5   275.   777.   14.   -66.   275.   777.   14.   6.5  14.2   6.5   0.0  0 -1  0  0  0  0  0   0.0    4  0  8   0
282 26  8  38.2  1044.  -345.   12.   -21.  1043.  -341.    0.  28.4  12.2  28.4   0.0 -1  4  0  0  0  0  0   3.708  4  0  5   0
283 25  1   2.9   742.   209.    7.  -106.   740.   212.    0.  21.7   7.2  21.7   0.0 -1  4  0  0  0  0  0   0.485  4  0  1   0
284 14 13  30.3  1171.  -188.    8.  -217.  1170.  -186.    0.  23.0   8.3  23.0   0.0 -1  0  0  0  0  0  0   3.975  4  0  5   0
285 26  8  28.0   998.    78.    7.  -235.   997.    79.    0.  21.6   6.9  21.6   0.0 -1 26  0  0  0  0  0   5.309  4  0  5   0
286 25  1   1.4   896.   202.    6.  -226.   895.   203.    0.  19.1   5.9  19.1   0.0 -1 26  0  0  0  0  0   2.727  4  0  1   0
287  3 14  33.5   224.   811.   21.   -45.   213.   807.    0.  38.0  20.9  38.0   0.0 -1  0  0  0  0  0  0   2.279  5  0  8   0
288  1  6 166.1   944.  -193.   23.   -31.   939.  -183.    0.  40.0  22.5  40.0   0.0 -1  0  0  0  0  0  0   0.087  4  0  5   0
289 26  8  23.0  1154.  -224.   11.  -182.  1152.  -222.    0.  26.5  10.6  26.5   0.0 -1  0  0  0  0  0  0   4.084  4  0  5   0
290 25  1   1.1  1165.  -214.    6.  -196.  1164.  -213.    0.  19.7   5.9  19.7   0.0 -1  0  0  0  0  0  0   0.541  4  0  5   0
291  8  7   4.0   775.   285.   15.  -177.   775.   285.    0.  30.3  14.5  30.3   0.0 -1 11  0  0  0  0  0   0.471  4  0  1   0
292  3 15  30.1   720.   207.   14.   -86.   719.   209.    0.  30.8  13.7  30.8   0.0 -1  4  0  0  0  0  0   0.772  5  0  1   0
293  3 14  32.8  1013.   -24.   22.  -186.   988.   -19.    0.  48.9  21.4  48.9   0.0 -1  0  0  0  0  0  0   0.925  4  0  5   0
294  3 16  15.8   366.   730.   23.  -111.   364.   730.    0.  37.8  22.5  37.8   0.0 -1  0  0  0  0  0  0   0.075  5  0  2   0
295  3 14  36.7  1127.   -90.   24.  -239.  1100.   -56.    0.  52.5  23.7  52.5   0.0 -1  0  0  0  0  0  0   0.859  4  0  5   0
296  3 15  21.1   203.  1142.   24.  -223.   203.  1142.   23.   3.2  23.5   3.2   0.0  0 -1  0  0  0  0  0   0.0    4  0  8   0
297  1  6 577.2   816.    -7.   12.   -37.   814.    -2.    0.  30.3  11.9  30.3   0.0 -1  0  0  0  0  0  0   0.132  5  0  5   0
298  1  6 264.1   760.    96.   21.   -54.   756.   106.    0.  39.3  20.9  39.3   0.0 -1  4  0  0  0  0  0   0.457  4  0  5   0
299  3 15  24.8   793.   258.   20.  -176.   792.   260.    0.  36.4  20.1  36.4   0.0 -1  4  0  0  0  0  0   0.120  5  0  1   0
300  3 14  38.9   755.   203.   15.  -112.   742.   206.    0.  42.8  15.1  42.8   0.0 -1  4  0  0  0  0  0  10.157  5  0  1   0
301 14 13  38.7  1053.  -222.    9.  -101.  1052.  -222.    0.  23.3   8.6  23.3   0.0 -1  0  0  0  0  0  0   0.779  4  0  5   0
302  3 14  42.4   786.   -14.   23.    -9.   767.    24.    0.  53.9  22.6  53.9   0.0 -1  0  0  0  0  0  0   0.891  4  0  5   0
303  3 14  78.1   607.   233.   19.   -11.   593.   242.    0.  42.1  18.4  42.1   0.0 -1  0  0  0  0  0  0   8.934  4  0  1   0
304  3 14  65.7   974.  -165.   20.   -71.   935.  -149.    0.  54.5  19.9  54.5   0.0 -1  0  0  0  0  0  0   0.976  4  0  5   0
305  3 14  22.7   657.   201.   24.   -32.   655.   205.    0.  39.5  24.0  39.5   0.0 -1  0  0  0  0  0  0   0.106  5  0  1   0
306  3 14  21.9   951.  -189.   25.   -38.   927.  -144.    0.  59.2  24.5  59.2   0.0 -1  0  0  0  0  0  0   0.840  4  0  5   0
307 26  8  37.3   835.   -48.    9.   -28.   834.   -46.    0.  24.4   8.9  24.4   0.0 -1  0  0  0  0  0  0  22.839  4  0  5   0
308  3 14  58.2   641.   278.   19.   -65.   634.   289.    0.  48.3  19.0  48.3   0.0 -1  6  0  0  0  0  0   8.690  5  0  1   0
309  1  6 115.2  1093.  -298.   10.   -88.  1089.  -295.    0.  27.0  10.2  27.0   0.0 -1  0  0  0  0  0  0   0.719  4  0  5   0
310 26  8  24.0   973.  -118.   13.   -98.   970.  -115.    0.  29.6  13.2  29.6   0.0 -1  0  0  0  0  0  0   3.489  4  0  5   0
311  8  7   4.0   873.   213.    8.  -214.   873.   213.    0.  22.6   7.9  22.6   0.0 -1  0  0  0  0  0  0   0.711  5  0  1   0
312 14 13  57.4   796.   187.   21.  -136.   791.   189.    0.  37.0  21.2  37.0   0.0 -1  4  0  0  0  0  0   0.449  4  0  5   0
313  3 14  72.8   789.    23.   21.   -33.   791.    42.    0.  48.6  20.4  48.6   0.0 -1  0  0  0  0  0  0   4.772  5  0  5   0
314 25  1   2.2   868.   114.    6.  -151.   866.   115.    0.  19.3   5.8  19.3   0.0 -1  0  0  0  0  0  0   0.547  4  0  5   0
315 25  1   1.8   826.   175.   14.  -153.   824.   179.    0.  29.7  13.6  29.7   0.0 -1  4  0  0  0  0  0   0.321  4  0  5   0
316 12 18   2.5   287.   742.    8.   -55.   292.   749.    0.  24.5   7.9  24.5   0.0 -1  0  0  0  0  0  0   1.068  4  0  2   0
317  3 14  35.7  1073.  -231.   20.  -111.  1077.  -219.    0.  40.7  20.1  40.7   0.0 -1  0  0  0  0  0  0   0.964  4  0  5   0
318 26  8  50.0  1229.  -445.   26.  -110.  1223.  -439.    0.  41.2  26.2  41.2   0.0 -1  0  0  0  0  0  0  12.274  4  0 12   0
319  3 15  32.6   405.   749.   15.  -154.   404.   749.    0.  31.2  15.1  31.2   0.0 -1  0  0  0  0  0  0   1.268  5  0  2   0
320  3 14  53.0  1158.  -176.   20.  -213.  1128.  -160.    0.  48.2  19.7  48.2   0.0 -1  0  0  0  0  0  0   0.982  4  0  5   0
321 25  1   3.1   928.   -36.   13.  -110.   927.   -33.    0.  28.5  12.7  28.5   0.0 -1  0  0  0  0  0  0   0.337  4  0  5   0
322  1  6 376.7  2059. -1363.   29.  -236.  2060. -1357.    0.  41.1  28.6  41.1   0.0 -1  0  0  0  0  0  0   0.181  4  0 13   0
323  3 14  72.3   843.   -78.    9.   -17.   846.   -67.    0.  31.4   9.1  31.4   0.0 -1  0  0  0  0  0  0   7.866  4  0  5   0
324  1  6 861.5   960.  -207.   22.   -35.   958.  -196.    0.  39.8  22.0  39.8   0.0 -1  0  0  0  0  0  0   0.440  4  0  5   0
325  3 14  44.5   370.   597.   13.   -36.   362.   596.    0.  30.0  12.9  30.0   0.0 -1 16  0  0  0  0  0   1.007  4  0  2   0
326  3 15  32.1   646.   251.   19.   -53.   645.   254.    0.  35.2  19.0  35.2   0.0 -1  0  0  0  0  0  0   0.125  5  0  1   0
327 26  8  33.7   751.    74.   12.   -33.   749.    78.    0.  28.2  11.9  28.2   0.0 -1  4  0  0  0  0  0   3.767  4  0  5   0
328 25  1   3.9  1263.  -542.   31.   -81.  1253.  -534.    0.  45.3  30.6  45.3   0.0 -1  0  0  0  0  0  0   1.902  4  0 12   0
329  3 14  45.9   230.   743.   18.   -10.   230.   743.   18.   5.5  18.1   5.5   0.0  0 -1  0  0  0  0  0   0.0    5  0  2   0
330  3 15  38.1   449.   847.   15.  -247.   448.   846.    0.  30.8  14.8  30.8   0.0 -1  0  0  0  0  0  0   0.599  5  0  8   0
331  3 14  63.4   724.   109.   17.   -32.   709.   130.    6.  45.2  17.2  45.2   4.8 11  4  0  0  0  0  0   1.079  4  0  5   9
331  3 14  63.4   724.   109.   17.   -32.   705.   125.    0.  45.2  17.2  41.4   0.0 -1  4  0  0  0  0  0   1.079  4  0  5   9
332 25  1   3.6  1555.  -684.   34.  -232.  1547.  -682.    0.  45.8  33.8  45.8   0.0 -1  0  0  0  0  0  0   1.586  5  0 12   0
333 26  8  25.2   704.   111.   13.   -17.   702.   115.    0.  29.1  12.8  29.1   0.0 -1  4  0  0  0  0  0   3.575  4  0  5   0
334  8  7   4.0   650.   209.   14.   -32.   650.   209.    0.  29.6  13.5  29.6   0.0 -1  0  0  0  0  0  0   2.477  4  0  1   0
335 25  1   3.5   596.   252.    9.   -13.   595.   253.    0.  24.2   9.2  24.2   0.0 -1  0  0  0  0  0  0   0.418  4  0  1   0
336  3 14  41.7   424.   769.   17.  -181.   414.   780.    0.  46.3  16.6  46.3   0.0 -1  0  0  0  0  0  0   1.327  5  0  8   0
337  3 14  30.1  1027.   -34.   24.  -191.  1005.    -3.    0.  50.7  23.7  50.7   0.0 -1  0  0  0  0  0  0   0.860  4  0  5   0
338  3 14  63.2   820.   271.   24.  -206.   821.   275.    0.  41.4  23.5  41.4   0.0 -1  0  0  0  0  0  0   7.495  5  0  1   0
339 26  8  24.5   854.    98.   15.  -130.   851.   102.    0.  31.2  14.8  31.2   0.0 -1  0  0  0  0  0  0   3.220  4  0  5   0
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340 25  1    3.4  715.   242.    5.  -103.  713.   243.    0.  19.0   5.1  19.0   0.0 -1  0  0  0  0  0  0   0.585  4  0  1   0
341 26  8   41.8 1150.  -225.   10.  -177. 1148.  -223.    0.  26.0  10.1  26.0   0.0 -1  0  0  0  0  0  0   4.202  4  0  5   0
342  3 14   63.0  915.  -179.   13.   -15.  900.  -167.    0.  40.6  12.8  40.6   0.0 -1  0  0  0  0  0  0   1.298  4  0  5   0
343  3 14   44.9  845.   176.   21.  -169.  825.   200.    0.  49.5  20.8  49.5   0.0 -1  0  0  0  0  0  0   0.941  4  0  5   0
344 25  1    2.9 1120.  -265.    7.  -130. 1119.  -263.    0.  22.0   7.0  22.0   0.0 -1  0  0  0  0  0  0   2.463  5  0  5   0
345  1  6  211.0 1203.  -311.   11.  -169. 1203.  -311.   11.   3.2  11.2   3.2   0.0  0 -1  0  0  0  0  0   0.0    4  0  5   0
346  1  6  306.3  906.  -189.   21.    -2.  901.  -182.    0.  35.6  21.1  35.6   0.0 -1  0  0  0  0  0  0   0.091  4  0  5   0
347 26  9   39.1 1428.  -670.   33.  -138. 1414.  -655.    0.  49.0  33.2  49.0   0.0 -1  0  0  0  0  0  0   0.950  4  0 12   0
348  3 15   14.4  777.   256.   21.  -162.  775.   257.    0.  36.3  20.4  36.3   0.0 -1  0  0  0  0  0  0   0.594  5  0  1   0
349 25  1    3.7  771.    69.   13.   -46.  769.    74.    0.  29.0  12.6  29.0   0.0 -1  4  0  0  0  0  0   0.338  4  0  5   0
350  3 14   68.7  957.    69.   10.  -196.  948.    80.    0.  39.3   9.6  39.3   0.0 -1 26  0  0  0  0  0   1.529  5  0  5   0
351  3 14   43.3  967.  -246.   24.   -17.  949.  -222.    0.  41.7  24.1  41.7   0.0 -1  0  0  0  0  0  0   0.851  4  0  5   0
352  3 14   77.1  995.    35.    9.  -206.  995.    44.    0.  26.5   9.1  26.5   0.0 -1 26  0  0  0  0  0   1.574  4  0  5   0
353 25  1    1.6  647.   260.    9.   -59.  644.   263.    0.  24.2   8.8  24.2   0.0 -1  0  0  0  0  0  0   0.431  4  0  1   0
354 26  8   34.9 1123.  -329.    8.   -94. 1121.  -327.    0.  22.4   7.3  22.4   0.0 -1  0  0  0  0  0  0  25.662  4  0  5   0
355  3 14   38.9  898.    19.   23.  -119.  878.    55.    0.  51.0  23.3  51.0   0.0 -1  0  0  0  0  0  0   4.347  4  0  5   0
356  3 15   30.6  866.   210.   21.  -206.  863.   213.    0.  36.1  20.9  36.1   0.0 -1  0  0  0  0  0  0   0.117  4  0  1   0
357  3 14   61.1 1202.  -190.   16.  -240. 1189.  -184.    0.  44.2  15.8  44.2   0.0 -1  0  0  0  0  0  0   5.658  5  0  5   0
358  3 14   43.7  833.    85.   23.  -106.  810.   115.    0.  56.4  22.5  56.4   0.0 -1  4  0  0  0  0  0   0.893  4  0  5   0
359 25  1    2.4 1796. -1307.   34.   -58. 1788. -1297.    0.  47.1  34.1  47.1   0.0 -1  0  0  0  0  0  0   0.312  4  0 12   0
360  8  7    4.0  641.   257.   14.   -53.  641.   257.    0.  30.0  14.1  30.0   0.0 -1  0  0  0  0  0  0   2.398  4  0  1   0
361  3 14   63.4  653.   187.   10.   -21.  642.   206.    0.  41.8   9.7  41.8   0.0 -1  0  0  0  0  0  0   3.406  4  0  3   0
362  1  6  259.4 1078.  -336.   18.   -54. 1079.  -334.    0.  33.1  18.2  33.1   0.0 -1  0  0  0  0  0  0   0.100  4  0  5   0
363  3 16    5.4  304.   671.   22.   -26.  303.   671.    0.  37.2  21.9  37.2   0.0 -1  0  0  0  0  0  0   0.076  4  0  2   0
364  1  6  149.3 1081.  -319.   24.   -67. 1071.  -312.    0.  40.7  23.8  40.7   0.0 -1  0  0  0  0  0  0   0.415  4  0  5   0
365 25  1    2.2 1855. -1444.   31.   -24. 1854. -1439.    0.  43.8  30.5  43.8   0.0 -1  0  0  0  0  0  0   1.915  4  0 12   0
366  1  6  746.6  806.   129.   25.  -110.  805.   130.   23.  10.1  24.5  10.1   0.0 11  4  0  0  0  0  0   0.081  4  0  5  10
366  1  6  746.6  806.   129.   25.  -110.  805.   130.   23.  12.4  24.5  12.4   0.0 11  4  0  0  0  0  0   0.081  4  0  5  11
367 25  1    3.2  623.   235.   11.   -25.  622.   238.    0.  27.6  10.9  27.6   0.0 -1  0  0  0  0  0  0   0.373  5  0  1   0
368  8  7    4.0  783.   273.   10.  -176.  783.   273.    0.  25.2   9.8  25.2   0.0 -1 11  0  0  0  0  0   0.617  4  0  1   0
369  1  6  669.0 1238.  -271.   25.  -221. 1229.  -268.    0.  38.1  24.6  38.1   0.0 -1  0  0  0  0  0  0   0.081  4  0  5   0
370  3 14   53.2  893.   -98.   23.   -45.  893.   -76.    0.  50.1  22.4  50.1   0.0 -1  0  0  0  0  0  0   0.893  4  0  5   0
371 14 13   53.0 1040.  -231.   21.   -85. 1041.  -229.    0.  37.2  21.2  37.2   0.0 -1  0  0  0  0  0  0   2.245  5  0  5   0
372  1  6  765.6  768.    79.   24.   -50.  765.    91.    0.  39.3  23.9  39.3   0.0 -1  4  0  0  0  0  0   0.414  4  0  5   0
373  3 14   71.0  776.     2.   20.   -11.  777.     9.    0.  41.8  20.2  41.8   0.0 -1  0  0  0  0  0  0   4.800  5  0  5   0
374  3 14   39.9  775.   247.   18.  -155.  758.   269.    0.  47.7  17.9  47.7   0.0 -1  0  0  0  0  0  0   1.821  4  0  1   0
375 14 12   42.7 2141. -1668.   33.  -121. 2131. -1659.    0.  45.7  32.7  45.7   0.0 -1  0  0  0  0  0  0   0.365  4  0 13   0
376  3 14   40.3 1063.  -316.   17.   -53. 1040.  -309.    0.  42.3  16.8  42.3   0.0 -1  0  0  0  0  0  0   1.096  4  0  5   0
377  1  6  492.9 1040.  -134.   17.  -142. 1035.  -127.    0.  35.5  17.1  35.5   0.0 -1  0  0  0  0  0  0   0.524  4  0  5   0
378  1  6  516.7 1126.  -233.   18.  -154. 1122.  -232.    0.  31.9  17.8  31.9   0.0 -1  0  0  0  0  0  0   0.102  4  0  5   0
379  3 14   69.7  725.   219.   24.   -98.  706.   246.    0.  58.6  23.6  58.6   0.0 -1  0  0  0  0  0  0   1.493  5  0  1   0
380  3 15   16.6  858.   212.   18.  -201.  858.   213.    0.  33.1  17.9  33.1   0.0 -1  0  0  0  0  0  0   0.650  4  0  1   0
381 14 13   55.7 1190.  -257.   15.  -191. 1189.  -257.    0.  30.6  15.2  30.6   0.0 -1  0  0  0  0  0  0   0.563  4  0  5   0
382 26  8   33.7 1027.    56.   10.  -245. 1025.    59.    0.  25.9  10.1  25.9   0.0 -1 26  0  0  0  0  0   4.209  4  0  5   0
383  8  7    4.0  837.   235.   14.  -198.  837.   236.    0.  29.9  14.0  29.9   0.0 -1  0  0  0  0  0  0   0.482  4  0  1   0
384  2  4   23.7  961.  -117.   14.   -89.  960.  -115.    0.  30.6  13.9  30.6   0.0 -1  0  0  0  0  0  0   3.358  5  0  5   0
385  3 14   24.0  902.  -179.   20.    -5.  894.  -141.    0.  52.8  20.1  52.8   0.0 -1  0  0  0  0  0  0   4.844  4  0  5   0
386 26  9   38.8 1472.  -934.   31.   -17. 1466.  -915.    0.  47.3  31.1  47.3   0.0 -1  0  0  0  0  0  0   0.214  4  0 12   0
387 25  1    2.6  347.   973.    5.  -240.  347.   974.    5.   3.2   4.9   3.2   0.0  0 -1  0  0  0  0  0   0.0    4  0  8   0
388 14 11   62.2  335.   622.   23.   -22.  333.   630.    0.  38.1  22.5  38.1   0.0 -1  0  0  0  0  0  0   2.608  4  0  2   0
389 25  1    1.9  605.   229.   11.    -8.  605.   231.    0.  26.5  10.8  26.5   0.0 -1  0  0  0  0  0  0   1.876  4  0  1   0
390  3 14   41.6  818.   287.   22.  -213.  810.   295.    0.  47.2  21.3  47.2   0.0 -1 11  0  0  0  0  0   8.027  5  0  1   0
391  1  6  129.9  988.    96.   19.  -237.  987.   100.    4.  29.0  18.5  29.0   0.0140 26  0  0  0  0  0  0   0.100  4  0  5  12
391  1  6  129.9  988.    96.   19.  -237.  987.   100.    0.  32.7  18.5  32.7   0.0 -1 26  0  0  0  0  0   0.100  4  0  5  12
392  1  6  192.5 1231.  -229.   13.  -241. 1230.  -230.    0.  28.5  13.0  28.5   0.0 -1  0  0  0  0  0  0   0.125  4  0  5   0
393 25  1    3.2 1191.  -213.   15.  -218. 1189.  -212.    0.  29.2  14.5  29.2   0.0 -1  0  0  0  0  0  0   0.306  4  0  5   0
394  3 14   56.1  576.   263.   17.    -4.  569.   280.    8.  38.8  16.6  38.8  10.5 17  5  0  0  0  0  0   1.918  4  0  1  13
394  3 14   56.1  576.   263.   17.    -4.  565.   270.    0.  38.8  16.6  36.8   0.0 -1  5  0  0  0  0  0   1.918  4  0  1  13
395 26  8   33.1 1245.  -274.   13.  -225. 1243.  -272.    0.  29.2  12.9  29.2   0.0 -1  0  0  0  0  0  0   3.547  4  0  5   0
396  3 14   34.1  852.   -32.   15.   -51.  841.   -31.    0.  33.8  14.5  33.8   0.0 -1  0  0  0  0  0  0   5.997  4  0  5   0
397  3 14   29.3  966.    11.   11.  -169.  957.    13.    0.  29.7  11.1  29.7   0.0 -1  0  0  0  0  0  0   1.415  4  0  5   0
398  3 14   55.7  804.   118.   14.  -102.  783.   130.    0.  44.8  14.2  44.8   0.0 -1  4  0  0  0  0  0   1.217  4  0  5   0
399  1  6  940.4  787.    39.   24.   -41.  783.    45.    0.  41.6  23.8  41.6   0.0 -1  0  0  0  0  0  0   0.415  4  0  5   0
400  3 15   28.8  887.   236.   12.  -238.  887.   236.    0.  27.8  11.5  27.8   0.0 -1  0  0  0  0  0  0   0.855  5  0  1   0
401  3 14   46.4  761.   177.   20.  -102.  758.   195.    0.  47.2  20.0  47.2   0.0 -1  4  0  0  0  0  0   0.968  5  0  5   0
402  3 14   56.6  664.   309.   21.  -102.  637.   334.    1.  55.4  20.9  55.4  10.0 29  7  0  0  0  0  0   1.637  4  0  1  14
402  3 14   56.6  664.   309.   21.  -102.  636.   333.    0.  55.4  20.9  50.0   0.0 -1  7  0  0  0  0  0   1.637  4  0  1  14
403  1  6  574.4  889.  -110.   25.   -35.  882.  -100.    0.  41.4  24.4  41.4   0.0 -1  0  0  0  0  0  0   0.408  4  0  5   0
404  3 15   17.8  723.   276.   17.  -130.  723.   277.    0.  33.1  17.1  33.1   0.0 -1  8  0  0  0  0  0   0.670  4  0  1   0
405 14 13   31.2  879.  -101.   19.   -33.  877.   -97.    0.  34.8  18.8  34.8   0.0 -1  0  0  0  0  0  0   2.444  4  0  5   0
406  3 14   56.4  919.    99.   18.  -183.  916.   100.   16.  18.2  17.5  18.2   4.4140 26  0  0  0  0  0  0   1.063  4  0  5  15
406  3 14   56.4  919.    99.   18.  -183.  903.    99.    0.  43.5  17.5  43.5   0.0 -1 26  0  0  0  0  0   1.063  4  0  5  15
407  3 14   72.8 1095.  -208.   22.  -144. 1059.  -184.    0.  52.2  21.9  52.2   0.0 -1  0  0  0  0  0  0   0.911  4  0  5   0
408  3 14   76.3  640.   305.   17.   -80.  621.   328.    0.  51.9  16.5  51.9   0.0 -1  7  0  0  0  0  0   1.922  4  0  1   0
```

```
40?  ? 7   4.0   622.   229.  14.  -21.   622.   229.   0.  29.9  13.9  ????  0.0 -1  0  0  0  0  0  0   2.431  4  0  1   0
410  3 14  38.6  1195.  -253. 18. -197.  1187.  -236.   0.  46.6  17.8  46.6  0.0 -1  0  0  0  0  0  0   5.242  5  0  5   0
411  1  6 129.8   988.    65. 21. -219.   983.    65.   0.  36.3  20.6  36.3  0.0 -1 26  0  0  0  0  0   0.092  4  0  5   0
412  3 14  67.6   426.   835. 25. -222.   421.   847.   0.  49.3  24.5  49.3  0.0 -1  0  0  0  0  0  0   1.011  5  0  8   0
413  3 14  20.2   612.   266. 24.  -34.   601.   280.  17.  39.0  24.2  39.0 19.0 23  6  0  0  0  0  0   1.474  4  0  1  16
413  3 14  20.2   612.   266. 24.  -34.   588.   268.   0.  48.1  24.2  48.1  0.0 -1  0  0  0  0  0  0   1.474  4  0  1  16
414  2  4  34.7   312.   719.  8.  -61.   312.   719.   0.  23.3   8.3  23.3  0.0 -1  0  0  0  0  0  0   0.724  5  0  2   0
415  3 14  39.0   874.   -47. 22.  -61.   851.   -13.   0.  59.0  22.2  59.0  0.0 -1  0  0  0  0  0  0   0.901  4  0  5   0
416  2  4  40.9   665.   263. 14.  -76.   663.   266.   0.  29.6  14.2  29.6  0.0 -1  0  0  0  0  0  0   2.402  4  0  1   0
417 26  8  39.9  2097. -1641. 29. -102.  2091. -1634.   0.  43.0  28.6  43.0  0.0 -1  0  0  0  0  0  0  33.831  4  0 13   0
418  8  7   4.0   655.   256. 13.  -64.   655.   256.   0.  29.0  13.2  29.0  0.0 -1  0  0  0  0  0  0   2.522  4  0  1   0
419  3 14  48.6   995.  -123. 16. -113.   975.   -97.   0.  49.1  15.7  49.1  0.0 -1  0  0  0  0  0  0   1.144  4  0  5   0
420 25  1   1.5  1787. -1064. 30. -194.  1783. -1061.   0.  42.1  29.7  42.1  0.0 -1  0  0  0  0  0  0   0.404  4  0 12   0
421  3 15  10.8   617.   275. 20.  -44.   615.   277.   0.  35.3  19.8  35.3  0.0 -1  6  0  0  0  0  0   0.605  4  0  1   0
422  3 14  75.4   659.   214.  9.  -42.   652.   228.   0.  40.3   9.0  40.3  0.0 -1  0  0  0  0  0  0   2.742  4  0  1   0
423  3 15  32.0   717.   216. 23.  -90.   717.   216.   0.  37.8  22.4  37.8  0.0 -1  4  0  0  0  0  0   0.111  4  0  1   0
424  3 14  49.2   318.   946. 19. -200.   318.   946.  18.   5.8  18.2   5.8  0.0  0 -1  0  0  0  0  0   0.0    5  0  8   0
425  1  6  70.9  1147.  -106. 10. -245.  1147.  -105.   0.  24.7   9.7  24.7  0.0 -1  0  0  0  0  0  0   0.147  4  0  5   0
426  3 14  66.7  2161. -1623. 30. -165.  2115. -1583.   0.  63.0  30.4  63.0  0.0 -1  0  0  0  0  0  0   0.536  4  0 13   0
427 25  1   1.2   982.  -139. 14.  -93.   978.  -136.   0.  29.4  14.2  29.4  0.0 -1  0  0  0  0  0  0   0.310  4  0  1   0
428  8  7   4.0   856.   230. 10. -210.   856.   229.   0.  25.3   9.9  25.3  0.0 -1  0  0  0  0  0  0   3.077  4  0  1   0
429 14 13  19.9   972.  -171. 18.  -66.   969.  -170.   0.  33.2  18.1  33.2  0.0 -1  0  0  0  0  0  0   0.502  4  0  5   0
430  1  6 380.9   965.   -19. 23. -151.   962.   -20.   0.  37.5  22.5  37.5  0.0 -1  0  0  0  0  0  0   0.087  4  0  5   0
431  3 14  64.0   816.   197. 17. -159.   789.   213.   0.  47.9  16.9  47.9  0.0 -1  4  0  0  0  0  0   1.089  4  0  5   0
432 25  1   1.4   615.   248.  7.  -27.   613.   250.   0.  21.2   6.9  21.2  0.0 -1  0  0  0  0  0  0   0.497  4  0  1   0
433 14 13  31.7   905.  -177. 13.   -8.   904.  -175.   0.  27.5  12.4  27.5  0.0 -1  0  0  0  0  0  0   0.639  4  0  5   0
434  3 14  56.0   657.   182. 11.  -21.   645.   192.   0.  36.6  10.4  36.6  0.0 -1  0  0  0  0  0  0   3.263  4  0  3   0
435 26  8  40.3   691.   117. 12.  -10.   690.   121.   0.  28.5  12.2  28.5  0.0 -1  4  0  0  0  0  0   3.693  4  0  5   0
436  1  6 328.8  1032.  -292. 18.  -43.  1026.  -289.   0.  33.5  18.2  33.5  0.0 -1  0  0  0  0  0  0   0.101  4  0  5   0
437  3 14  66.1   754.    46. 10.  -18.   741.    62.   0.  37.8   9.5  37.8  0.0 -1  0  0  0  0  0  0   1.539  4  0  5   0
438 25  1   3.1  1019.  -305.  6.  -24.  1019.  -303.   0.  19.0   5.8  19.0  0.0 -1  0  0  0  0  0  0   0.547  4  0  5   0
439  3 14  21.7   326.   737.  9.  -83.   324.   735.   0.  25.8   8.6  25.8  0.0 -1  0  0  0  0  0  0   1.255  5  0  2   0
440  3 14  63.9   212.   823. 12.  -43.   204.   823.   0.  32.8  11.7  32.8  0.0 -1  0  0  0  0  0  0   3.314  5  0  8   0
441  3 16  13.7   281.   709. 20.  -31.   281.   710.   0.  36.5  20.2  36.5  0.0 -1  0  0  0  0  0  0   0.081  5  0  2   0
442  3 14  73.6   332.   742. 10.  -91.   323.   748.   0.  39.9   9.9  39.9  0.0 -1  0  0  0  0  0  0   1.163  5  0  2   0
443  8  7   4.0   733.   214. 15. -101.   732.   214.   0.  30.7  14.7  30.7  0.0 -1  4  0  0  0  0  0   2.330  4  0  1   0
444  3 14  37.1   769.    98. 24.  -62.   745.   130.   4.  56.5  24.1  56.5 18.5 11  4  0  0  0  0  0   0.848  4  0  5  17
444  3 14  37.1   769.    98. 24.  -62.   741.   127.   0.  56.5  24.1  50.0  0.0 -1  4  0  0  0  0  0   0.848  4  0  5  17
445  1  6 265.8   794.    61. 22.  -60.   788.    71.   0.  39.1  22.3  39.1  0.0 -1  0  0  0  0  0  0   0.087  4  0  5   0
446  3 14  25.4   294.   849. 18. -123.   285.   865.   0.  47.9  17.5  47.9  0.0 -1  0  0  0  0  0  0  12.817  5  0  8   0
447  3 14  48.5   836.   210. 17. -182.   825.   232.   0.  47.5  16.4  47.5  0.0 -1  0  0  0  0  0  0   1.927  4  0  1   0
448  3 14  48.6   819.   201. 13. -163.   810.   217.   0.  42.5  12.4  42.5  0.0 -1  0  0  0  0  0  0   2.296  5  0  1   0
449  3 14  63.1  1076.  -119. 18. -181.  1069.  -103.   0.  30.4  17.9  30.4  0.0 -1  0  0  0  0  0  0   1.051  4  0  5   0
450 25  1   1.8   684.   313. 14. -120.   680.   316.   0.  29.9  13.9  29.9  0.0 -1 11  0  0  0  0  0   0.315  4  0  5   0
451  2  4  19.6   346.   793.  6. -133.   346.   793.   0.  20.1   6.0  20.1  0.0 -1  0  0  0  0  0  0   6.074  5  0  8   0
452  1  6 401.0   964.  -199. 20.  -43.   964.  -192.   0.  36.6  19.8  36.6  0.0 -1  0  0  0  0  0  0   0.474  5  0  5   0
453 14 13  53.5  1091.  -296. 12.  -88.  1090.  -293.   0.  27.0  12.1  27.0  0.0 -1  0  0  0  0  0  0   3.249  4  0  5   0
454  3 14  73.1  1002.  -165. 25.  -94.   960.  -120.   0.  57.3  24.9  57.3  0.0 -1  0  0  0  0  0  0   0.830  4  0  5   0
455  3 14  23.9  1266.  -277. 15. -240.  1248.  -259.   0.  41.1  14.6  41.1  0.0 -1  0  0  0  0  0  0   2.148  4  0  6   0
456  8  7   4.0   624.   228.  9.  -22.   624.   228.   0.  24.1   9.0  24.1  0.0 -1  0  0  0  0  0  0   3.267  4  0  1   0
457  3 14  61.8   672.   312. 24. -110.   673.   324.   0.  44.3  24.0  44.3  0.0 -1 11  0  0  0  0  0   7.368  5  0  1   0
458  3 14  60.7  1105.  -139. 24. -193.  1075.  -128.   0.  53.1  23.5  53.1  0.0 -1  0  0  0  0  0  0   4.312  4  0  5   0
459  1  6 496.9  1021.    47. 13. -235.  1020.    49.   0.  27.4  13.2  27.4  0.0 -1 26  0  0  0  0  0   0.124  4  0  5   0
460  3 14  38.4   850.   -39. 15.  -46.   829.   -21.   0.  47.7  14.7  47.7  0.0 -1  0  0  0  0  0  0   1.195  4  0  5   0
461 14 13  31.9   398.   536. 21.  -22.   396.   542.   0.  36.7  21.1  36.7  0.0 -1 16  0  0  0  0  0   0.971  4  0  2   0
462  8  7   4.0   860.   256.  5. -229.   860.   257.   0.  18.5   5.2  18.5  0.0 -1 11  0  0  0  0  0   0.893  5  0  1   0
463  8 19  69.7   782.   289.  9. -185.   780.   290.   0.  23.5   8.7  23.5  0.0 -1 11  0  0  0  0  0   1.003  4  0  1   0
464  3 14  66.6  1118.  -304. 10. -105.  1103.  -287.   0.  39.4   9.9  39.4  0.0 -1  0  0  0  0  0  0   1.509  4  0  5   0
465  3 14  66.4  1113.  -180. 25. -174.  1083.  -142.   0.  58.8  24.4  58.8  0.0 -1  0  0  0  0  0  0   0.840  4  0  5   0
466  3 15  30.3  2199. -1663. 35. -171.  2198. -1659.   0.  47.7  34.8  47.7  0.0 -1  0  0  0  0  0  0   0.497  5  0 13   0
467 14 13  47.4  1171.  -181. 21. -221.  1171.  -179.   0.  36.0  20.4  36.0  0.0 -1  0  0  0  0  0  0   2.307  5  0  5   0
468 25  1   2.0   812.   186. 10. -148.   809.   188.   0.  25.2   9.8  25.2  0.0 -1  4  0  0  0  0  0   0.402  4  0  5   0
469 25  1   3.4  1001.   -32.  8. -172.  1001.   -31.   0.  23.6   7.9  23.6  0.0 -1  0  0  0  0  0  0   2.292  5  0  5   0
470 25  1   1.5  1571. -1061. 34.  -22.  1567. -1051.   0.  44.7  33.5  44.7  0.0 -1  0  0  0  0  0  0   0.321  4  0 12   0
471  3 14  52.3   683.   209. 13.  -58.   677.   206.   0.  31.9  13.2  31.9  0.0 -1  4  0  0  0  0  0  11.081  4  0  1   0
472  3 15  19.8   318.   917. 17. -183.   318.   917.   0.  33.1  16.6  33.1  0.0 -1  0  0  0  0  0  0   1.111  5  0  8   0
473  3 14  54.7   725.   208. 13.  -92.   714.   226.   0.  45.1  13.2  45.1  0.0 -1  4  0  0  0  0  0   2.218  4  0  1   0
474  3 14  31.6   705.   190. 23.  -65.   701.   218.   0.  47.0  23.3  47.0  0.0 -1  4  0  0  0  0  0   0.870  4  0  5   0
475 25  1   3.2  1962. -1291. 35. -200.  1953. -1284.   0.  46.6  34.7  46.6  0.0 -1  0  0  0  0  0  0   0.303  4  0 12   0
476  3 14  63.8  1057.   -27. 18. -220.  1044.    -2.   0.  40.5  17.5  40.5  0.0 -1  0  0  0  0  0  0   1.065  4  0  5   0
477 25  1   1.4  1041.  -168. 14. -123.  1038.  -166.   0.  30.3  14.0  30.3  0.0 -1  0  0  0  0  0  0   0.313  4  0  5   0
478  1  6 451.6   944.  -165. 23.  -48.   936.  -162.   0.  39.0  23.3  39.0  0.0 -1  0  0  0  0  0  0   0.085  4  0  5   0
479 14 13  56.0   895.  -120. 22.  -34.   893.  -114.   0.  37.2  21.5  37.2  0.0 -1  0  0  0  0  0  0   0.446  4  0  5   0
480  3 14  30.4   914.   -15. 23. -112.   891.    11.   0.  51.3  22.4  51.3  0.0 -1  0  0  0  0  0  0   4.477  4  0  5   0
```

```
481  1     2.0  833.  272.  11.  -216.  830.  274.  0.  26.6  11.1  51.3  0.0 -1  0  0  0  0  0  0   0.370  4  0  1   0
482  3 14 72.0  900. -180.  22.    -3.  885. -157.  0.  51.3  22.1  51.3  0.0 -1  0  0  0  0  0  0   4.524  4  0  5   0
483 25  1  1.6  930.  -70.   7.   -92.  929.  -68.  0.  20.5   6.4  20.5  0.0 -1  0  0  0  0  0  0   0.521  4  0  5   0
484  1  6 753.0 1040. -258. 15.   -70. 1041. -255.  0.  30.6  15.3  30.6  0.0 -1  0  0  0  0  0  0   0.113  4  0  5   0
485  3 14 46.2  389.  650.  21.   -82.  391.  656.  0.  39.0  21.2  39.0  0.0 -1 16  0  0  0  0  0   0.725  4  0  2   0
486 25  1  2.5  814.  328.  12.  -234.  813.  330.  4.  21.7  11.4  21.7  0.0  4  2  0  0  0  0  0   0.363  4  0  1  18
486 25  1  2.5  814.  328.  12.  -234.  813.  330.  4.  21.7  11.4  21.5  0.0  4  2  0  0  0  0  0   0.363  4  0  1  19
487  3 14 76.0  901.  -11.  21.  -103.  866.   10.  0.  58.9  21.4  58.9  0.0 -1  0  0  0  0  0  0   0.926  4  0  5   0
488 25  1  2.5  624.  333.  13.   -84.  622.  333.  0.  28.7  12.8  28.7  0.0 -1 10  0  0  0  0  0   1.666  4  0  1   0
489 14 11 85.7  359.  718.  10.   -98.  357.  718.  0.  25.2  10.0  25.2  0.0 -1  0  0  0  0  0  0   0.873  4  0  2   0
490 25  1  4.0 1155. -152.  12.  -225. 1152. -150.  0.  27.5  11.9  27.5  0.0 -1  0  0  0  0  0  0   1.759  4  0  5   0
491  3 14 41.0  917.   93.  15.  -178.  915.  100.  4.  35.6  14.5  35.6  7.9140 26 0  0  0  0  0  0  1.194  5  0  5  20
491  3 14 41.0  917.   93.  15.  -178.  914.  100.  0.  38.8  14.5  38.8  0.0 -1 26  0  0  0  0  0   1.194  5  0  5  20
492 26  8 48.4  949. -146.  14.   -62.  947. -142.  0.  29.8  13.4  29.8  0.0 -1  0  0  0  0  0  0  17.319  4  0  5   0
493  1  6 273.4 1113. -242. 22.  -138. 1106. -233.  0.  40.2  22.3  40.2  0.0 -1  0  0  0  0  0  0   0.436  4  0  5   0
494 26  9 31.6 1117. -399.  26.   -48. 1109. -384.  0.  43.6  25.4  43.6  0.0 -1  0  0  0  0  0  0   0.330  4  0 12   0
495  3 14 39.5  657.  300.  21.   -91.  624.  314.  0.  54.7  21.4  54.7  0.0 -1  6  0  0  0  0  0   1.611  4  0  1   0
496  3 14 36.1  775.   73.  18.   -52.  757.   80.  0.  41.4  18.3  41.4  0.0 -1  4  0  0  0  0  0   5.162  4  0  1   0
497  3 15 35.1  801.  213.  19.  -155.  799.  216.  0.  34.9  18.8  34.9  0.0 -1  4  0  0  0  0  0   0.126  5  0  1   0
498 14 13 27.0  881.   62.  13.  -131.  879.   63.  0.  28.3  12.5  28.3  0.0 -1  0  0  0  0  0  0   3.175  4  0  5   0
499  3 14 34.7  812.  313.  12.  -224.  807.  317.  7.  26.4  11.4  26.4  5.9  4  2  0  0  0  0  0   2.415  4  0  1  21
499  3 14 34.7  812.  313.  12.  -224.  807.  318.  0.  30.8  11.4  30.8  0.0  4  2  0  0  0  0  0   2.415  4  0  1  22
500 14 13 48.8  916. -199.  14.    -4.  915. -196.  0.  29.7  13.8  29.7  0.0 -1  0  0  0  0  0  0   2.989  4  0  5   0
```

SUMMARY FOR TORNADO 1

TARGET	EVENT	SINGLE MISSILE P(A|I)	VAR(P(A|I))	CONFIDENCE BOUNDS		P(A)	MULTIPLE MISSILE P(A|I)**N	P(A)**N
1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	0.111049E-01	0.613756E-04	-0.425021E-02	0.264600E-01	0.187410E-01	0.999644E+00	0.168704E+01
2	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	7	0.111739E-01	0.605068E-04	-0.407214E-02	0.264199E-01	0.188574E-01	0.330137E-01	0.557152E-01
2	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	2	0.480518E-02	0.997503E-05	-0.138510E-02	0.109955E-01	0.810941E-02	0.979963E+00	0.165382E+01
4	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	2	0.223740E-01	0.994590E-04	0.282715E-02	0.419208E-01	0.377591E-01	0.100000E+01	0.168764E+01

27	●	1	0.0	0.0	0.0	0.0	●.0	0.0	0.0
27		2	0.0	0.0	0.0	0.0	●.0	0.0	0.0
27		3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27		4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27		5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27		6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27		7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27		8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27		9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27		10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28		1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28		2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28		3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28		4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28		5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28		6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28		7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28		8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28		9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28		10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL		1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL		2	0.210341E+00	0.407295E-02	0.852550E-01	0.335427E+00	0.567837E-01	0.100000E+01	0.269960E+00
ALL		3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL		4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL		5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL		6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL		7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL		8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL		9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL		10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALL		11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2021 UNION		1						0.0	0.0
2021 UNION		2						0.0	0.0
2021 UNION		3						0.0	0.0
2021 UNION		4						0.0	0.0
2021 UNION		5						0.0	0.0
2021 UNION		6						0.0	0.0
2021 UNION		7						0.0	0.0
2021 UNION		8						0.0	0.0
2021 UNION		9						0.0	0.0
2021 UNION		10						0.0	0.0
2021 UNION		11						0.0	0.0
2021 INT		1						0.0	0.0
2021 INT		2						0.0	0.0
2021 INT		3						0.0	0.0
2021 INT		4						0.0	0.0
2021 INT		5						0.0	0.0
2021 INT		6						0.0	0.0
2021 INT		7						0.0	0.0
2021 INT		8						0.0	0.0
2021 INT		9						0.0	0.0
2021 INT		10						0.0	0.0
2021 INT		11						0.0	0.0

```
NHITS,NHITV,NDAM1-4      16       0.0           0.0           0.0         0.0           0.0
AVHWT,AVHWTS,NNO,NHOR,NVER 0.586533E+01 0.556089E+01   0     0     0
NHISZ          102        25        84       145        81        0        0        0
NHISZ            3         8         0        51         0        0        1
NAHISZ          15         2        26         0        11        0        0        0
NAHISZ           0         1         0        22         0        0        0
```

```
                              TORNADO    4 PARAMETERS AND MISSILE HISTORY RESULTS
I,UMAX,UTRAN,WIDTH,TAU,YPOSET     2 0.161614E+03 0.625554E+02 0.137378E+03 0.772216E+01-0.597900E+03
TWT,PSTR,TWTP,YPLT,YPRT           0.158589E+01 0.113224E+00 0.179561E+00-0.559615E+03-0.696993E+03
SLOPE,GAMMA,DELTA,RR,RL,RMAX      0.203784E+00 0.862820E+00 0.482403E+03 0.990931E+02 0.382848E+02 0.549512E+02
```

		SUB																						
NMIS	SET	SET	LOD	XO	YO	ZO	OFFSET	X1	Y1	Z1	VMAX	ZMAX	VHIT	VE	WAL	TAR	D1	D2	D3	D4	DV	HWT	KEY SF IZ NHT
1	25	3	2.4	611.	100.	8.	6.	614.	106.	0.	25.7	8.0	25.7	0.0	-1	0	0	0	0	0	0	11.519	4 0 3 0

Typical F-2

Tornado Missile Summary

```
 2 [  ]15  32.2  828. 1389.  9.  -41.  828. 1389.  8.   6.4  8.7  [ ]   0.0  0 -1  0  0  0  0  0   0.0    4  0  8  0
 3 26  8  41.7  535. -272. 13.   32.  538. -268.  0.  29.9 13.2 29.9   0.0 -1  0  0  0  0  0  0   7.376  4  0  4  0
 4 26  9  32.0  555. -133. 15.   30.  563. -125.  0.  35.4 14.8 35.4   0.0 -1  0  0  0  0  0  0   0.341  4  0  4  0
 5  3 14  78.4  656.  285. 19.  -15.  642.  334. 23.  58.5 23.2 58.5  15.1 29  7  0  0  0  0  0   8.790  4  0  1  1
 5  3 14  78.4  656.  285. 19.  -15.  666.  334. 30.  63.9 30.2 63.9  11.4 29  7  0  0  0  0  0   8.790  4  0  1  2
 6 26  8  29.3  630. -194. 13.  -52.  628. -187.  0.  32.0 13.3 32.0   0.0 -1  0  0  0  0  0  0   7.345  4  0  4  0
 7  2  4  26.6  668. -256. 13.  -98.  667. -254.  0.  30.4 13.1 30.4   0.0 -1  0  0  0  0  0  0   3.504  5  0  5  0
 8  3 16   5.3  865. 1734. 16.  -32.  867. 1736.  0.  32.0 15.9 32.0   0.0 -1  0  0  0  0  0  0   0.741  4  0 14  0
 9 26  8  20.8  545. -294.  9.   19.  547. -291.  0.  24.7  8.4 24.7   0.0 -1  0  0  0  0  0  0   9.985  4  0  4  0
10 14 11  29.5  799.  739. 11.  -97.  800.  741.  0.  25.7 10.9 25.7   0.0 -1  0  0  0  0  0  0   4.158  4  0  2  0
11 26  9  45.1  622. -112.  9.  -33.  624. -100.  0.  34.2  8.8 34.2   0.0 -1  0  0  0  0  0  0   0.487  4  0  4  0
12 26  9  48.6  551. -209.  9.   24.  557. -203.  0.  29.3  8.7 29.3   0.0 -1  0  0  0  0  0  0   0.490  4  0  4  0
13 25  1   2.2  580.   50. 10.   29.  582.   52.  0.  25.6  9.9 25.6   0.0 -1  0  0  0  0  0  0   1.986  4  0  3  0
14 14 13  25.6  671.  -89. 20.  -79.  671.  -87.  0.  34.0 19.5 34.0   0.0 -1  0  0  0  0  0  0   0.477  4  0  5  0
15  1  6 821.0  675.  -48. 24.  -78.  677.  -41.  0.  37.7 23.4 37.7   0.0 -1  0  0  0  0  0  0   0.084  4  0  5  0
16 14 12  47.1  774. 1304. 13.    2.  774. 1304. 13.   3.0 12.8  3.0   0.0  0 -1  0  0  0  0  0   0.0    4  0  8  0
17  3 14  70.8  711.  180. 15.  -83.  720.  211.  0.  39.8 15.0 39.8   0.0 -1  4  0  0  0  0  0   5.912  4  0  5  0
18  2  4  34.8  729.  689. 12.  -34.  730.  694.  0.  26.9 11.8 26.9   0.0 -1 17  0  0  0  0  0   2.865  4  0  2  0
19  3 17   5.9  809. 1754. 22.   27.  810. 1754.  9.  29.2 21.7 29.2   0.0  0 -1  0  0  0  0  0   0.0    4  0 14  0
20  3 16  17.9  898. 1612. 11.  -80.  898. 1612. 11.   3.1 10.8  3.1   0.0  0 -1  0  0  0  0  0   0.0    4  0 14  0
21  3 14  53.3  764.  704. 14.  -67.  757.  709.  0.  41.8 13.4 41.8   0.0 -1 17  0  0  0  0  0   0.980  5  0  2  0
22  2  4  22.5  625.  294. 10.   17.  626.  297.  0.  24.9  9.9 24.9   0.0 -1  6  0  0  0  0  0   0.616  4  0  1  0
23 26  8  38.5  643. -346. 12.  -85.  643. -342.  0.  28.8 12.2 28.8   0.0 -1  0  0  0  0  0  0   7.813  4  0  4  0
24  3 16  12.0  885. 1847. 16.  -36.  884. 1848.  0.  32.1 15.7 32.1   0.0 -1  0  0  0  0  0  0   0.149  4  0 14  0
25  3 15  14.8  811. 1526. 11.   -5.  811. 1526. 11.   3.2 11.3  3.2   0.0 -1  0  0  0  0  0  0   0.0    4  0 14  0
26 26  8  39.6  603. -273.  9.  -36.  604. -268.  0.  25.6  8.4 25.6   0.0 -1  0  0  0  0  0  0  49.907  4  0  4  0
27  3 14  59.7  727.  251. 14.  -90.  732.  267.  0.  44.5 13.8 44.5   0.0 -1  0  0  0  0  0  0   2.150  5  0  1  0
28  8  7   4.0  680.  280. 11.  -39.  680.  281.  0.  26.9 11.3 26.9   0.0 -1  8  0  0  0  0  0   0.561  4  0  1  0
29  3 15  18.4  696.  945. 22.   32.  700.  947.  0.  37.4 22.0 37.4   0.0 -1  0  0  0  0  0  0   2.292  4  0  8  0
30 25  1   3.2  658.  256. 15.  -21.  662.  263.  0.  32.4 14.6 32.4   0.0 -1  0  0  0  0  0  0   0.304  4  0  1  0
31 26  9  29.5  545. -781. 32.  -45.  549. -744.  0.  56.4 31.5 56.4   0.0 -1  0  0  0  0  0  0   1.047  4  0 12  0
32  3 16  16.8  874. 1860. 22.  -24.  876. 1867.  0.  38.0 21.6 38.0   0.0 -1  0  0  0  0  0  0   0.600  4  0 14  0
33 14 13  29.7  862. 1718. 15.  -31.  862. 1718. 15.   3.8 15.2  3.8   0.0  0 -1  0  0  0  0  0   0.0    5  0 14  0
34 26  9  47.5  543. -246. 11.   28.  549. -240.  0.  31.5 10.9 31.5   0.0 -1  0  0  0  0  0  0   0.423  4  0  4  0
35 26  8  25.7  554. -249. 15.   16.  558. -244.  0.  31.7 14.4 31.7   0.0 -1  0  0  0  0  0  0   6.948  4  0  4  0
36  3 10  48.0  841. 1552. 23.  -32.  841. 1552. 23.   2.9 23.1  2.9   0.0  0 -1  0  0  0  0  0   0.0    4  0 14  0
37 26  8  26.0  608. -164. 10.  -27.  610. -159.  0.  27.2  9.6 27.2   0.0 -1  0  0  0  0  0  0   9.187  4  0  4  0
38  3 14  48.1  628.  114. 23.  -10.  656.  162.  0.  76.9 22.4 76.9   0.0 -1  0  0  0  0  0  0   1.999  4  0  3  0
39  3 10  48.0  757. 1229. 23.    9.  757. 1229. 21.   7.8 22.5  7.8   0.0  0 -1  0  0  0  0  0   0.0    4  0  8  0
40 25  1   2.9  596.   61. 14.   15.  599.   64.  0.  27.9 13.8 27.9   0.0 -1  0  0  0  0  0  0   0.317  4  0  3  0
41 26  9  39.2  612. -259. 13.  -43.  614. -245.  0.  37.9 13.3 37.9   0.0 -1  0  0  0  0  0  0   0.368  4  0  4  0
42 26  9  31.8  604. -317. 11.  -42.  604. -305.  0.  35.2 10.8 35.2   0.0 -1  0  0  0  0  0  0   0.427  4  0  4  0
43 14 13  52.0  671.  -19. 13.  -69.  668.  -17.  0.  28.6 12.9 28.6   0.0 -1  0  0  0  0  0  0   0.625  4  0  5  0
44  2  4  39.5  773. 1062.  9.  -29.  772. 1063.  0.  23.9  8.5 23.9   0.0 -1  0  0  0  0  0  0   4.991  5  0  8  0
45  1  6 648.8  688.  106. 19.  -70.  686.  114.  0.  32.0 18.9 32.0   0.0 -1  4  0  0  0  0  0   0.490  4  0  5  0
46  3 14  42.3  661.  273. 19.  -22.  663.  334. 24.  74.5 24.7 74.5  18.4 29  7  0  0  0  0  0   1.761  3  0  1  3
46  3 14  42.3  661.  273. 19.  -22.  685.  326. 20.  74.5 24.7 30.1   9.5 34  8  0  0  0  0  0   1.761  3  0  1  4
47 26  8  49.6  682. -115. 13.  -93.  682. -111.  0.  29.6 13.1 29.6   0.0 -1  0  0  0  0  0  0   3.519  4  0  5  0
48 26  8  43.7  620.  -85.  9.  -28.  621.  -80.  0.  25.6  8.8 25.6   0.0 -1  0  0  0  0  0  0   9.725  4  0  4  0
49 26  8  20.3  334.-1782. 31.   33.  342.-1775.  0.  44.7 30.9 44.7   0.0 -1  0  0  0  0  0  0   8.668  4  0 12  0
50 26  9  42.4  611. -219.  6.  -36.  611. -211.  0.  29.0  6.1 29.0   0.0 -1  0  0  0  0  0  0   0.603  4  0  4  0
51 26  8  38.0  643.  -89. 12.  -51.  642.  -82.  0.  30.5 12.0 30.5   0.0 -1  0  0  0  0  0  0   7.903  4  0  4  0
52  3 15  30.5  787. 1593. 20.   27.  787. 1593. 19.   6.5 19.5  6.5   0.0  0 -1  0  0  0  0  0   0.0    4  0 14  0
53  3 15  22.6  786. 1473. 22.   12.  787. 1474.  0.  36.3 21.6 36.3   0.0 -1  0  0  0  0  0  0   0.090  4  0 14  0
54  3 15  33.9  762. 1467.  9.   36.  762. 1466.  0.  24.0  9.0 24.0   0.0 -1  0  0  0  0  0  0   0.078  4  0 14  0
55 14 11  44.1  859. 1698. 15.  -30.  861. 1711.  0.  34.6 15.3 34.6   0.0 -1  0  0  0  0  0  0   0.720  4  0 14  0
56 14 11  28.1  779. 1596. 23.   36.  785. 1599.  0.  39.7 22.7 39.7   0.0 -1  0  0  0  0  0  0   0.110  4  0 14  0
57  1  6 369.7  739. 1132. 16.   14.  738. 1132.  2.  28.2 16.2 28.2   0.0  0 -1  0  0  0  0  0   0.0    4  0 14  0
58  8  7   4.0  606.  266.  7.   32.  606.  266.  0.  21.0  6.9 21.0   0.0 -1  0  0  0  0  0  0   0.770  4  0  1  0
59  3 15  29.1  687.  228. 15.  -53.  685.  230.  0.  28.7 14.4 28.7   0.0 -1  0  0  0  0  0  0   0.750  4  0  1  0
60  3 14  44.7  661.  227. 21.  -28.  660.  334. 20.  83.0 28.4 83.0  20.6 29  7  *  *  *  *  *   1.639  3  0  1  5
60  3 14  44.7  659.  327. 21.  -28.  660.  334. 20.  80.5 19.6 80.5  56.7 29  7  0  0  0  0  0   0.164  3  0  1  5
60  3 14  44.7  659.  327. 21.  -28.  660.  334. 20.  82.8 19.8 82.8  27.5 29  7  0  0  0  0  0   0.164  3  0  1  5
60  3 14  44.7  659.  327. 21.  -28.  660.  334. 20.  82.1 19.5 82.1  23.1 29  7  0  0  0  0  0   0.164  3  0  1  5
60  3 14  44.7  659.  327. 21.  -28.  660.  334. 20.  80.5 19.7 80.5  73.4 29  7  0  0  0  0  0   0.164  3  0  1  5
60  3 14  44.7  659.  327. 21.  -28.  660.  334. 20.  82.5 19.8 82.5  30.8 29  7  0  0  0  0  0   0.164  3  0  1  5
60  3 14  44.7  659.  327. 21.  -28.  660.  334. 20.  81.8 19.5 81.8  20.5 29  7  0  0  0  0  0   0.164  3  0  1  5
60  3 14  44.7  659.  327. 21.  -28.  660.  334. 20.  82.3 19.5 82.3  24.9 29  7  0  0  0  0  0   0.164  3  0  1  5
60  3 14  44.7  659.  327. 21.  -28.  660.  334. 20.  81.4 19.7 81.4  43.6 29  7  0  0  0  0  0   0.164  3  0  1  5
60  3 14  44.7  659.  327. 21.  -28.  660.  334. 20.  80.8 19.6 80.8  45.2 29  7  0  0  0  0  0   0.164  3  0  1  5
60  3 14  44.7  659.  327. 21.  -28.  660.  334. 20.  81.7 19.5 81.7  26.1 29  7  0  0  0  0  0   0.164  3  0  1  5
60  3 14  44.7  659.  327. 21.  -28.  672.  333.  0.  81.7 19.5 75.2   0.0 -1 11  0  0  0  0  0   0.164  3  0  1  5
61 26  9  41.6  657. -294. 12.  -92.  656. -287.  0.  31.2 11.9 31.2   0.0 -1  0  0  0  0  0  0   0.398  4  0  4  0
62 25  1   2.1  709.  279. 14.  -68.  709.  280. 11.  14.8 14.3 14.8   0.0 35  8  0  0  0  0  0   1.541  4  0  1  6
```

```
 62 25  1   2.1  709.  279.  14.  -68.  709.  280.  11.  14.8  14.3  14.6   0.0 35  8  0  0  0  0  0   1.541  4  0  1   7
 63 14 12  24.8  815. 1872.  20.   36.  818. 1871.   0.  35.6  19.7  35.6   0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
 64 14 11  34.8  801. 1735.  21.   32.  807. 1739.   0.  37.8  20.8  37.8   0.0 -1  0  0  0  0  0  0   0.117  4  0 14   0
 65  3 14  39.2  701.  102.  14.  -84.  705.  105.   0.  34.5  14.2  34.5   0.0 -1  4  0  0  0  0  0   6.074  5  0  5   0
 66 25  1   1.7  814. 1182.   7.  -53.  814. 1182.   7.   4.4   6.6   4.4   0.0  0 -1  0  0  0  0  0   0.0    5  0  8   0
 67 14 11  69.8  886. 1770.  17.  -48.  880. 1781.   0.  37.2  17.1  37.2   0.0 -1  0  0  0  0  0  0   0.134  4  0 14   0
 68  1  6 664.7  780. 1540.  11.   27.  784. 1539.   1.  26.6  11.2  26.6   0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
 69 25  1   2.8  649.  131.  10.  -29.  651.  137.   0.  27.3   9.6  27.3   0.0 -1  0  0  0  0  0  0   0.408  4  0  3   0
 70  1  6 463.1  737. 1146.  22.   18.  737. 1146.  22.   3.7  21.9   3.7   0.0 -1  0  0  0  0  0  0   0.0    4  0  8   0
 71 26  9  37.4  658.   17.   5.  -52.  657.   23.   0.  26.0   5.1  26.0   0.0 -1  0  0  0  0  0  0   0.666  4  0  4   0
 72 26  8  20.0  606.  -93.   6.  -15.  607.  -90.   0.  21.1   5.6  21.1   0.0 -1  0  0  0  0  0  0  63.298  4  0  4   0
 73 14 13  10.2  724.  726.   9.  -25.  725.  727.   0.  24.7   8.8  24.7   0.0 -1  0  0  0  0  0  0   0.333  5  0  2   0
 74 26  8  21.8  535. -332.  14.   24.  539. -327.   0.  30.7  13.8  30.7   0.0 -1  0  0  0  0  0  0  35.832  4  0  4   0
 75  3 16  16.5  929. 2050.   9.  -54.  927. 2051.   0.  25.8   8.9  25.8   0.0 -1  0  0  0  0  0  0   0.207  5  0 14   0
 76  3 15  17.2  805. 1622.  15.   13.  805. 1622.  15.   3.2  14.7   3.2   0.0 -1  0  0  0  0  0  0   0.0    4  0 14   0
 77  3 14  43.9  928. 1901.  11.  -73.  923. 1913.   0.  45.7  10.7  45.7   0.0 -1  0  0  0  0  0  0   1.127  5  0 14   0
 78  3 14  46.1  645.  223.  21.  -13.  682.  334.  16.  95.4  22.8  95.4  58.9 29  7  *  *  *  *  *   1.656  3  0  1   8
 78  3 14  46.1  681.  332.  16.  -13.  682.  334.  16.  95.1  16.1  95.1  53.9 29  7  0  0  0  0  0   0.166  3  0  1   8
 78  3 14  46.1  681.  332.  16.  -13.  682.  334.  16.  95.5  16.1  95.5  22.8 29  7  0  0  0  0  0   0.166  3  0  1   8
 78  3 14  46.1  681.  332.  16.  -13.  682.  334.  16.  95.2  16.1  95.2  74.6 29  7  0  0  0  0  0   0.166  3  0  1   8
 78  3 14  46.1  681.  332.  16.  -13.  682.  334.  16.  95.0  16.1  95.0  88.5 29  7  0  0  0  0  0   0.166  3  0  1   8
 78  3 14  46.1  681.  332.  16.  -13.  682.  334.  16.  95.6  16.1  95.6  50.2 29  7  0  0  0  0  0   0.166  3  0  1   8
 78  3 14  46.1  681.  332.  16.  -13.  682.  334.  16.  95.5  16.1  95.5  25.2 29  7  0  0  0  0  0   0.166  3  0  1   8
 78  3 14  46.1  681.  332.  16.  -13.  682.  334.  16.  95.0  16.1  95.0  86.6 29  7  0  0  0  0  0   0.166  3  0  1   8
 78  3 14  46.1  681.  332.  16.  -13.  682.  334.  16.  95.4  16.1  95.4  26.2 29  7  0  0  0  0  0   0.166  3  0  1   8
 78  3 14  46.1  681.  332.  16.  -13.  682.  334.  16.  95.2  16.1  95.2  80.2 29  7  0  0  0  0  0   0.166  3  0  1   8
 78  3 14  46.1  681.  332.  16.  -13.  682.  334.  16.  95.5  16.1  95.5  23.7 29  7  0  0  0  0  0   0.166  3  0  1   8
 78  3 14  46.1  681.  332.  16.  -13.  685.  332.  14.  95.5  16.1  69.8  31.8 34  8  0  0  0  0  0   0.166  3  0  1   8
 79  3 16  17.3  867. 1581.  25.  -54.  862. 1583.   0.  39.4  24.4  39.4   0.0 -1  0  0  0  0  0  0   0.549  4  0 14   0
 80  3 15  30.2  660.  328.  23.  -13.  663.  334.   7.  33.1  23.3  33.1   0.0 29  7  0  0  0  0  0   0.108  4  0  1   9
 80  3 15  30.2  660.  328.  23.  -13.  663.  334.   0.  39.5  23.3  39.5   0.0 -1 11  0  0  0  0  0   0.108  4  0  1   9
 81 26  9  49.8  560. -222.  10.   13.  567. -213.   0.  33.0   9.7  33.0   0.0 -1  0  0  0  0  0  0   2.290  4  0  4   0
 82 26  8  32.9  610. -266.  13.  -42.  610. -259.   0.  31.3  13.1  31.3   0.0 -1  0  0  0  0  0  0  37.244  4  0  4   0
 83 26  8  27.1  581. -110.  11.    7.  584. -105.   0.  28.8  11.3  28.8   0.0 -1  0  0  0  0  0  0   8.263  4  0  4   0
 84  3 14  56.8  609.  138.  24.   12.  660.  158.  22.  63.3  25.9  63.3  49.1 10  4  0  0  0  0  0   9.530  3  0  3  10
 84  3 14  56.8  609.  138.  24.   12.  639.  203.   0.  63.3  25.9  54.6   0.0 -1  0  0  0  0  0  0   9.530  3  0  3  10
 85 26  9  32.5  641.   40.  10.  -32.  642.   54.   0.  37.4   9.9  37.4   0.0 -1  0  0  0  0  0  0   2.259  4  0  4   0
 86  3 15  29.7  717.  266.  19.  -78.  717.  267.   0.  35.2  19.1  35.2   0.0 -1  8  0  0  0  0  0   0.124  5  0  1   0
 87 26  8  25.3  586.  -61.   9.    9.  588.  -58.   0.  24.9   8.5  24.9   0.0 -1  0  0  0  0  0  0  49.863  4  0  4   0
 88  1  6 638.4  766. 1386.  10.   21.  767. 1385.   0.  25.6  10.1  25.6   0.0 -1  0  0  0  0  0  0   0.043  4  0  8   0
 89 26  9  32.8  529. -298.  14.   34.  536. -291.   0.  33.5  13.8  33.5   0.0 -1  0  0  0  0  0  0   0.358  4  0  4   0
 90 25  1   1.9  602.   70.  15.   10.  604.   75.   0.  30.6  14.7  30.6   0.0 -1  0  0  0  0  0  0   0.302  4  0  3   0
 91 26  9  29.2  538. -251.  13.   31.  545. -244.   0.  32.5  12.9  32.5   0.0 -1  0  0  0  0  0  0   1.885  4  0  4   0
 92  3 15  27.6  772.  684.  24.  -77.  772.  685.   0.  39.8  24.2  39.8   0.0 -1 17  0  0  0  0  0   0.917  5  0  2   0
 93 26  8  44.0  542. -271.  13.   25.  545. -268.   0.  30.2  13.3  30.2   0.0 -1  0  0  0  0  0  0   7.369  4  0  4   0
 94 25  1   3.0  346.-1765.  30.   23.  358.-1758.   0.  42.8  29.9  42.8   0.0 -1  0  0  0  0  0  0   0.400  4  0 12   0
 95  3 16   6.6  865. 1778.  23.  -26.  865. 1778.  23.   3.3  23.0   3.3   0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
 96 14 11  47.8  815. 1868.  17.   35.  818. 1867.   0.  31.7  17.1  31.7   0.0 -1  0  0  0  0  0  0   0.134  4  0 14   0
 97 26  8  44.6  631. -124.   9.  -44.  631. -119.   0.  25.6   8.6  25.6   0.0 -1  0  0  0  0  0  0   9.880  4  0  4   0
 98 26  9  40.2  575.    0.  10.   28.  581.    6.   0.  30.2   9.8  30.2   0.0 -1  0  0  0  0  0  0   2.275  4  0  4   0
 99  3 10  48.0  906. 1858.  21.  -56.  906. 1858.  21.   3.3  21.2   3.3   0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
100  3 14  54.7  704.  747.   9.   -2.  712.  760.   0.  48.1   8.4  48.1   0.0 -1  0  0  0  0  0  0   1.265  5  0  2   0
101  3 14  71.5  708.  757.   9.   -4.  720.  778.   0.  55.4   8.5  55.4   0.0 -1  0  0  0  0  0  0   9.876  4  0  8   0
102  1  6 266.5  821.  962.  18.  -90.  821.  962.  17.   3.5  17.5   3.5   0.0  0 -1  0  0  0  0  0   0.0    5  0  8   0
103 14 13  26.1  717.  184.  15.  -88.  715.  187.   0.  31.3  14.9  31.3   0.0 -1  4  0  0  0  0  0   0.571  5  0  5   0
104  3 14  60.0  622.  172.  15.   -4.  679.  291.   0.  94.4  15.7  94.4   0.0 -1  8  0  0  0  0  0   2.664  3  0  3   0
105  3 15  10.1  773.  840.  10.  -58.  773.  841.   0.  25.9   9.9  25.9   0.0 -1  0  0  0  0  0  0   3.802  5  0  8   0
106  3 14  47.1  662.  230.  16.  -28.  665.  243.   0.  51.8  15.3  51.8   0.0 -1  0  0  0  0  0  0   9.997  5  0  1   0
107 26  8  34.7  645.    5.  10.  -40.  645.   11.   0.  27.3   9.7  27.3   0.0 -1  0  0  0  0  0  0  45.802  4  0  4   0
108  3 14  42.5  681.  296.  15.  -38.  684.  334.   5.  69.2  15.0  69.2  22.0 29  7  0  0  0  0  0   2.053  4  0  1  11
108  3 14  42.5  681.  296.  15.  -38.  685.  331.   0.  69.2  15.0  58.9   0.0 -1 11  0  0  0  0  0   2.053  4  0  1  11
109 26  9  48.3  596. -209.  10.  -20.  600. -196.   0.  36.1  10.0  36.1   0.0 -1  0  0  0  0  0  0   0.449  4  0  4   0
110 26  8  40.4  615. -314.  12.  -53.  614. -308.   0.  30.0  11.7  30.0   0.0 -1  0  0  0  0  0  0   8.053  4  0  4   0
111  3 14  26.0  814. 1371.  15.  -29.  814. 1372.  15.   8.9  14.6   8.9   0.0  0 -1  0  0  0  0  0   0.0    5  0  8   0
112  3 15  10.1  799. 1619.  16.   19.  801. 1622.   0.  31.2  15.6  31.2   0.0 -1  0  0  0  0  0  0   0.564  4  0 14   0
113 26  8  37.7  599. -337.  14.  -40.  600. -330.   0.  31.6  13.4  31.6   0.0 -1  0  0  0  0  0  0  36.590  4  0  4   0
114 26  9  22.1  634. -327.   9.  -74.  633. -320.   0.  28.5   8.4  28.5   0.0 -1  0  0  0  0  0  0   2.498  4  0  4   0
115  1  6 512.2  833. 1424.  12.  -41.  833. 1424.  12.   3.3  11.9   3.3   0.0  0 -1  0  0  0  0  0   0.0    4  0  8   0
116 26  8  49.2  669.  -92.  13.  -78.  669.  -88.   0.  29.5  12.7  29.5   0.0 -1  0  0  0  0  0  0   3.593  4  0  5   0
117  3 14  66.2  720.  194.  23.  -90.  706.  241.   0.  63.9  22.7  63.9   0.0 -1  0  0  0  0  0  0   4.429  4  0  5   0
118 12 18   2.7  774.  721.  11.  -74.  780.  721.   0.  25.2  10.7  25.2   0.0 -1 17  0  0  0  0  0   0.437  4  0  2   0
119 14 11  51.5  865. 1485.  21.  -65.  862. 1495.   0.  37.0  21.1  37.0   0.0 -1  0  0  0  0  0  0   0.579  4  0 14   0
120  3 14  65.8  649.  185.  22.  -21.  699.  228.   0.  52.8  26.6  52.8   0.0 -1  4  0  0  0  0  0   2.039  3  0  3   0
121 26  9  46.4  564. -222.   6.    9.  568. -217.   0.  26.0   5.4  26.0   0.0 -1  0  0  0  0  0  0   0.643  4  0  4   0
```

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122 26      21.6 653. -139.  6. -68. 653. -137.   0.  20.2  5.5  2.  0.0 -1  0  0  0  0  0  0  63.603  4  0  4   0
                                                                       0.0  4  0  8   0
123  3 15   24.0 761. 1211. 13.   3. 761. 1211.  13.   6.4 13.1  6.4  0.0  0 -1  0  0  0  0  0  0  43.073  4  0  4   0
124 26  8   47.8 577. -302. 11. -14. 580. -297.   0.  28.2 10.6 28.2  0.0 -1  0  0  0  0  0  0   0.0    4  0 14   0
125 25  1    2.4 932. 1855. 13. -82. 932. 1855.  13.   3.2 12.8  3.2  0.0  0 -1  0  0  0  0  0  0   8.939  4  0  4   0
126 26  8   38.9 564. -160. 10.  18. 567. -157.   0.  26.8 10.0 26.8  0.0 -1  0  0  0  0  0  0   6.807  4  0  4   0
127 26  8   25.2 596.  -89. 15.  -5. 600.  -81.   0.  33.1 14.8 33.1  0.0 -1  0  0  0  0  0  0  10.992  3  0  3   0
128  3 14   21.7 615.  126. 20.   5. 693.  271.   0.  97.7 25.0 97.7  0.0 -1  0  0  0  0  0  0   2.171  4  0  4   0
129 26  9   24.8 623. -181. 11. -43. 623. -169.   0.  35.4 10.5 35.4  0.0 -1  0  0  0  0  0  0   0.222  4  0  8   0
130  1  6  638.6 711.  754. 10.  -8. 714.  761.   0.  31.5  9.5 31.5  0.0 -1  0  0  0  0  0  0  34.298  4  0  4   0
131 26  8   37.7 608. -156. 15. -25. 610. -148.   0.  33.1 14.6 33.1  0.0 -1  0  0  0  0  0  0   0.468  4  0  5   0
132 14 13   35.1 661.   87. 20. -46. 661.   98.   0.  38.2 20.0 38.2  0.0 -1  0  0  0  0  0  0  16.063  5  0  8   0
133  3 14   58.2 816.  966. 12. -84. 814.  985.   0.  47.2 12.3 47.2  0.0  0 -1  0  0  0  0  0  0   0.0    5  0 14   0
134 14 11   20.0 926. 1752. 19. -89. 926. 1752.  19.   3.4 18.9  3.4  1.9 10  4  *  *  *  *  *  10.577  3  0  3  12
135  3 14   58.5 589.   84. 21.  25. 660.  141.   1.  80.3 22.0 80.3 20.1 10  4  0  0  0  0  0   1.058  3  0  3  12
135  3 14   58.5 654.  134.  5.  25. 660.  141.   1.  78.9  2.1 78.9 17.0 10  4  0  0  0  0  0   1.058  3  0  3  12
135  3 14   58.5 654.  134.  5.  25. 660.  140.   1.  81.2  2.1 81.2 23.2 10  4  0  0  0  0  0   1.058  3  0  3  12
135  3 14   58.5 654.  134.  5.  25. 660.  140.   1.  79.5  2.1 79.5  8.0 10  4  0  0  0  0  0   1.058  3  0  3  12
135  3 14   58.5 654.  134.  5.  25. 660.  141.   1.  79.4  2.1 79.4  9.1 10  4  0  0  0  0  0   1.058  3  0  3  12
135  3 14   58.5 654.  134.  5.  25. 660.  140.   1.  79.1  2.1 79.1 41.9 10  4  0  0  0  0  0   1.058  3  0  3  12
135  3 14   58.5 654.  134.  5.  25. 660.  141.   1.  79.6  2.1 79.6  8.6 10  4  0  0  0  0  0   1.058  3  0  3  12
135  3 14   58.5 654.  134.  5.  25. 660.  141.   1.  79.6  2.1 79.6  7.9 10  4  0  0  0  0  0   1.058  3  0  3  12
135  3 14   58.5 654.  134.  5.  25. 660.  140.   1.  79.8  2.1 79.8 19.9 10  4  0  0  0  0  0   1.058  3  0  3  12
135  3 14   58.5 654.  134.  5.  25. 660.  141.   1.  79.0  2.1 79.0 37.4 10  4  0  0  0  0  0   1.058  3  0  3  12
135  3 14   58.5 654.  134.  5.  25. 660.  141.   1.  80.2  2.1 80.2 19.9 10  4  0  0  0  0  0   1.058  3  0  3  12
135  3 14   58.5 654.  134.  5.  25. 659.  143.   0.  80.2  2.1 72.1  0.0 -1  4  0  0  0  0  0  12.261  4  0  8   0
136  3 14   23.9 757. 1259. 19.  13. 779. 1298.   0.  66.5 18.9 66.5  0.0 -1  0  0  0  0  0  0  26.253  4  0  5   0
137 26  8   25.8 680.   75.  7. -66. 679.   78.   0.  22.7  7.1 22.7  0.0 -1  0  0  0  0  0  0  10.780  4  0  4   0
138 26  8   37.0 649. -336.  8. -90. 649. -333.   0.  22.6  7.4 22.6  0.0 -1  0  0  0  0  0  0   0.626  4  0  4   0
139 26  9   44.5 629. -303.  6. -66. 629. -297.   0.  24.6  5.7 24.6  0.0 -1  0  0  0  0  0  0   0.241  4  0  8   0
140  1  6  858.6 751. 1400. 25.  38. 757. 1408.   0.  50.6 27.5 50.6  0.0 -1  0  0  0  0  0  0   0.276  4  0 12   0
141 26  9   27.8 434.-1764. 28. -64. 431.-1738.   0.  26.4 10.0 26.4  0.0 -1  0  0  0  0  0  0   0.395  4  0  5   0
142 25  1    3.8 665.  -42. 10. -67. 663.  -38.   0.  46.8 29.1 46.8  0.0 -1  0  0  0  0  0  0  48.951  4  0 12   0
143 26  8   30.2 519. -817. 29. -24. 524. -797.   0.  33.5 14.8 33.5  0.0 -1  0  0  0  0  0  0   6.803  4  0  4   0
144 26  8   36.2 627.  -90. 15. -35. 628.  -82.   0.  89.2 24.8 89.2  0.0 -1  0  0  0  0  0  0   5.044  4  0  8   0
145  3 14   64.3 750.  811. 25. -39. 762.  889.   0.  45.8 26.4 45.8  0.0 -1  0  0  0  0  0  0   0.523  4  0 12   0
146 25  1    1.4 531. -628. 26. -11. 541. -607.   0.  32.8 15.6 32.8  0.0 -1  0  0  0  0  0  0   0.274  4  0 14   0
147 14 12   79.4 875. 1868. 16. -24. 871. 1873.   0.  25.2  9.2 25.2  0.0 -1  0  0  0  0  0  0   9.418  4  0  4   0
148 26  8   39.4 572.   28.  9.  34. 575.   30.   0.  10.7 11.0 10.7  0.0  0 10  4  0  0  0  0  0   0.372  4  0  3  13
149 25  1    2.7 660.  146. 11. -37. 660.  147.  10.  10.7 11.0  9.9  0.0  0 10  4  0  0  0  0  0   0.372  4  0  3  14
149 25  1    2.7 660.  146. 11. -37. 660.  147.  10.  10.7 11.0  9.9  0.0 -1  0  0  0  0  0  0  36.062  4  0  4   0
150 26  8   40.3 570.  -87. 14.  21. 574.  -8?   0.  30.7 13.7 30.7  0.0 -1  0  0  0  0  0  0   0.573  4  0  2   0
151 14 11   40.1 710.  735. 20. -10. 707.  736.   0.  32.8 19.7 32.8  0.0 -1  0  0  0  0  0  0   0.129  4  0 14   0
152  3 16    5.4 813. 1486. 20. -13. 811. 1487.  17.   3.6 16.8  3.6  0.0  0 -1  0  0  0  0  0  0   0.0    5  0 14   0
153  3 15   10.5 858. 1463. 17. -60. 858. 1463.   0.   3.1  8.9  3.1  0.0  0 -1  0  0  0  0  0  0   0.0    4  0 14   0
154 14 13   36.7 804. 1550.  9.   5. 804. 1550.   9.  39.2 24.4 39.2  0.0 -1  0  0  0  0  0  0   2.122  4  0  8   0
155  3 15   35.6 769.  941. 25. -41. 768.  941.   0.  35.8 22.4 35.8  0.0 -1  0  0  0  0  0  0   0.556  4  0  1   0
156  3 15   20.5 647.  263. 23.  -8. 645.  266.   0.  34.6 15.5 34.6  0.0 -1  0  0  0  0  0  0   0.560  5  0  5   0
157  1  6  592.4 694.   71. 16. -81. 690.   79.   0.  33.3 10.6 33.3  0.0 -1  0  0  0  0  0  0   0.051  4  0 14   0
158 12 18    2.9 870. 1791.  9. -29. 855. 1798.   0.  21.9  6.8 21.9  0.0 -1  0  0  0  0  0  0  11.341  4  0  4   0
159 26  8   41.6 536. -270.  7.  31. 538. -268.   0.  30.0 12.1 30.0  0.0 -1  0  0  0  0  0  0  39.359  4  0  4   0
160 26  8   42.4 607. -310. 12. -45. 607. -303.   0.  27.8 11.3 27.8  0.0 -1  0  0  0  0  0  0  41.285  4  0  4   0
161 26  8   27.1 555. -126. 11.  32. 558. -123.   0.  35.6 22.5 35.6  0.0 -1  0  0  0  0  0  0   0.257  4  0  8   0
162 14 12   69.4 700.  799. 23.   9. 703.  799.   5.  66.5 16.2 66.5 15.2 11  4  0  0  0  0  0   2.504  4  0  3  15
163  3 14   68.8 656.   94. 16. -40. 660.  130.   0.  66.5 16.2 49.1  0.0 -1  4  0  0  0  0  0   2.504  4  0  3  15
163  3 14   68.8 656.   94. 16. -40. 662.  121.   0.  82.0 28.5 82.0  0.0 -1  0  0  0  0  0  0   1.085  3  0  8   0
164  3 14   39.9 725.  806. 22. -15. 765.  897.   0.  25.4  7.3 25.4  0.0 -1  0  0  0  0  0  0   0.548  4  0  4   0
165 26  9   26.8 533. -258.  7.  36. 537. -254.   0.  47.3 33.6 47.3  0.0 -1  0  0  0  0  0  0   1.599  4  0 12   0
166 25  1    3.9 543.-1106. 34. -86. 541.-1092.   0.  81.7 14.9 81.7  0.0 -1  4  0  0  0  0  0   2.645  4  0  3   0
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168 26  9   25.2 657. -121.  7. -69. 656. -115.   0.  41.9 13.9 41.9  0.0 -1  0  0  0  0  0  0   0.362  5  0  2   0
169 12 18    2.5 775.  672. 14. -82. 784.  680.   0.  26.8 11.3 26.8  0.0 -1 17  0  0  0  0  0   0.136  4  0  5   0
170  1  6  311.4 664. -232. 11. -90. 662. -227.   0.  23.8  7.6 23.8  0.0 -1  0  0  0  0  0  0   0.469  4  0  1   0
171 25  1    2.3 680.  230.  8. -46. 682.  233.   0.                  0.0  0 -1  0  0  0  0  0  0   0.0    5  0 14   0
172 25  1    2.4 916. 1813. 12. -72. 916. 1813.  11.   3.4 11.4  3.4  0.0 -1  0  0  0  0  0  0   1.582  5  0  8   0
173  3 14   62.6 802.  866. 13. -84. 796.  877.   0.  44.5 12.6 44.5  0.0  0 -1  0  0  0  0  0  0   0.0    3  0  3   0
174  3 14   77.6 638.   67. 22. -26. 594.  935. 368. 153.8 545.7 101.4 0.0 -1  0  0  0  0  0  0   0.621  4  0  4   0
175 26  9   33.1 566.  -61.  6.  29. 570.  -57.   0.  24.0  5.8 24.0  0.0 -1  4  0  0  0  0  0   0.153  4  0  5   0
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177  3 15   15.7 622.  301. 12.  21. 622.  303.   0.  26.7 12.0 26.7  0.0 -1  0  0  0  0  0  0   0.690  4  0  5   0
178  1  6  136.2 679.  -45. 11. -81. 680.  -40.   0.  27.3 11.0 27.3  0.0 -1  0  0  0  0  0  0   0.366  4  0  4   0
179 26  9   37.0 650.  -76. 14. -57. 648.  -62.   0.  38.3 13.4 38.3  0.0 -1  0  0  0  0  0  0   0.493  4  0  1   0
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181  1  6  904.7 673.  -24. 18. -73. 671.  -13.   0.  37.6 17.5 37.6  0.0 -1  0  0  0  0  0  0   0.109  4  0  5   0
182  1  6  645.4 700.    1. 16. -96. 696.    6.   0.  33.7 16.1 33.7  0.0 -1  0
```

```
183       24.7  742. 1001.  20.   -6.  742. 1032.  30.  38.7  30.2  ...    0.0  0 -1  0  0  0  0  0    0.0    3  0  8    0
184   3 14  34.0  718.  176.  23.  -90.  731.  205.   0.  49.6  22.6  49.6   0.0 -1  4  0  0  0  0  0    4.450  4  0  5    0
185   3 15  18.4  794.  708.  13.  -96.  794.  710.   0.  28.5  12.6  28.5   0.0 -1 17  0  0  0  0  0    7.095  4  0  2    0
186  26   9  49.8  654.   10.  11.  -49.  653.   23.   0.  36.0  11.3  36.0   0.0 -1  0  0  0  0  0  0    0.414  4  0  4    0
187  26   9  47.2  554. -220.   7.   19.  560. -214.   0.  28.0   7.2  28.0   0.0 -1  0  0  0  0  0  0    2.744  4  0  4    0
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189  26   9  38.1  549.-1143.  29.  -97.  548.-1125.   0.  46.0  28.4  46.0   0.0 -1  0  0  0  0  0  0    1.282  4  0 12    0
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191  26   9  33.5  572. -136.  10.   13.  579. -128.   0.  32.7   9.8  32.7   0.0 -1  0  0  0  0  0  0    2.277  4  0  4    0
192  26   9  28.2  654. -327.   9.  -94.  654. -321.   0.  27.0   8.6  27.0   0.0 -1  0  0  0  0  0  0    0.493  4  0  4    0
193  26   9  39.4  645. -263.   5.  -76.  645. -259.   0.  21.6   4.8  21.6   0.0 -1  0  0  0  0  0  0    0.679  4  0  4    0
194   3 14  20.2  664.  747.  23.   38.  693.  748.   0.  54.5  22.9  54.5   0.0 -1  0  0  0  0  0  0    0.687  4  0  4    0
195  26   8  20.2  569. -184.  10.   10.  571. -180.   0.  26.5   9.6  26.5   0.0 -1  0  0  0  0  0  0    9.196  4  0  4    0
196   2   4  15.8  951. 2026.  10.  -79.  951. 2027.   0.  25.0   9.5  25.0   0.0 -1  0  0  0  0  0  0    0.031  5  0 14    0
197   3 14  56.9  675.   70.  24.  -62.  661.  130.   6.  77.9  23.8  77.9  20.6 11  4  *  *  *  *  *    0.857  4  0  5   16
197   3 14  56.9  666.   99.  16.  -62.  656.  139.   0.  70.7  14.3  70.7   0.0 -1  4  0  0  0  0  0    0.086  4  0  5   16
197   3 14  56.9  666.   99.  16.  -62.  662.  130.   3.  73.1  14.3  73.1  51.3 11  4  0  0  0  0  0    0.086  4  0  5   16
197   3 14  56.9  666.   99.  16.  -62.  662.  130.   5.  67.0  14.3  67.0  50.2 11  4  0  0  0  0  0    0.086  4  0  5   16
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197   3 14  56.9  666.   99.  16.  -62.  660.  130.   3.  80.4  14.2  80.4  17.7 11  4  0  0  0  0  0    0.086  4  0  5   16
197   3 14  56.9  666.   99.  16.  -62.  661.  130.   4.  80.4  14.3  80.4  22.4 11  4  0  0  0  0  0    0.086  4  0  5   16
197   3 14  56.9  666.   99.  16.  -62.  656.  137.   0.  79.5  14.3  79.5   0.0 -1  4  0  0  0  0  0    0.086  4  0  5   16
197   3 14  56.9  666.   99.  16.  -62.  661.  130.   4.  65.0  14.3  65.0  52.7 11  4  0  0  0  0  0    0.086  4  0  5   16
197   3 14  56.9  666.   99.  16.  -62.  661.  130.   5.  79.2  14.3  79.2  18.5 11  4  0  0  0  0  0    0.086  4  0  5   16
197   3 14  56.9  666.   99.  16.  -62.  658.  136.   0.  66.9  14.3  66.9   0.0 -1  4  0  0  0  0  0    0.086  4  0  5   16
198   3 14  60.6  698.  853.  22.   18.  779.  930.   0.  75.3  25.9  75.3   0.0 -1  0  0  0  0  0  0    1.118  3  0  8    0
199  26   9  31.7  591. -255.   7.  -22.  594. -246.   0.  30.4   6.7  30.4   0.0 -1  0  0  0  0  0  0    0.573  4  0  4    0
200   1   6 261.1  824. 1705.  15.    5.  824. 1705.  14.   5.4  14.7   5.4   0.0  0 -1  0  0  0  0  0    0.0    4  0 14    0
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206  26   9  37.3  577. -136.   7.    8.  582. -128.   0.  29.9   7.3  29.9   0.0 -1  0  0  0  0  0  0    2.724  4  0  4    0
207  26   9  49.1  613. -154.  12.  -30.  616. -140.   0.  37.3  11.9  37.3   0.0 -1  0  0  0  0  0  0    1.990  4  0  4    0
208   3 14  75.7  676.  728.  18.   24.  729.  796.   0.  68.7  18.7  68.7   0.0 -1  0  0  0  0  0  0    0.816  3  0  2    0
209   3 14  40.3  795.  752.  18.  -91.  806.  777.   0.  40.2  17.6  40.2   0.0 -1  0  0  0  0  0  0    6.428  4  0  8    0
210  26   8  46.8  631.   42.   7.  -22.  632.   46.   0.  23.3   6.9  23.3   0.0 -1  0  0  0  0  0  0   11.267  4  0  4    0
211   3 15  14.6  895. 1651.  18.  -72.  895. 1651.  17.   3.3  17.5   3.3   0.0  0 -1  0  0  0  0  0    0.0    4  0 14    0
212  25   1   1.8  550. -374.  30.   -4.  563. -366.   0.  45.7  30.2  45.7   0.0 -1  0  0  0  0  0  0    1.964  4  0 12    0
213   1   6  90.1  899. 1799.  16.  -56.  895. 1808.   0.  37.5  15.4  37.5   0.0 -1  0  0  0  0  0  0    0.157  5  0 14    0
214  26   9  46.8  622. -146.  11.  -38.  623. -132.   0.  38.0  11.3  38.0   0.0 -1  0  0  0  0  0  0    2.063  4  0  4    0
215  14  13  43.0  829. 1600.  15.  -14.  833. 1606.   0.  32.6  14.9  32.6   0.0 -1  0  0  0  0  0  0    5.312  4  0 14    0
216   3 14  68.9  625.  192.  18.    3.  656.  222.   0.  60.2  18.3  60.2   0.0 -1  0  0  0  0  0  0   11.531  4  0  3    0
217  26   9  30.5  801. 1727.  12.   31.  801. 1727.  12.   4.1  12.0   4.1   0.0  0 -1  0  0  0  0  0    0.0    4  0 14    0
218   3 14  52.7  656.  252.   9.  -20.  658.  288.   0.  64.7   9.3  64.7   0.0 -1  0  0  0  0  0  0    2.707  4  0  1    0
219  26   9  32.6  586.  -10.  14.   16.  595.    1.   0.  37.0  14.2  37.0   0.0 -1  0  0  0  0  0  0    0.351  4  0  4    0
220   3 15  26.0  705.  257.  24.  -67.  705.  263.   0.  39.1  23.4  39.1   0.0 -1  0  0  0  0  0  0    0.107  4  0  1    0
221  26   8  20.7  592.   -3.  13.   11.  596.    2.   0.  30.9  13.3  30.9   0.0 -1  0  0  0  0  0  0    7.363  4  0  4    0
222  26   9  30.1  650. -331.  14.  -90.  650. -322.   0.  32.9  13.6  32.9   0.0 -1  0  0  0  0  0  0    0.361  4  0  4    0
223  26   9  27.4  559. -227.  11.   13.  566. -219.   0.  32.7  10.5  32.7   0.0 -1  0  0  0  0  0  0    2.167  4  0  4    0
224   3 16   9.0  815. 1867.  20.   36.  818. 1868.   0.  36.1  19.7  36.1   0.0 -1  0  0  0  0  0  0    0.128  4  0 14    0
225   8   7   4.0  628.  327.   9.   19.  628.  327.   0.  24.2   9.2  24.2   0.0 -1  7  0  0  0  0  0    0.646  4  0  1    0
226  26   9  39.4  621.  -40.  10.  -23.  625.  -28.   0.  34.9  10.3  34.9   0.0 -1  0  0  0  0  0  0    2.200  4  0  4    0
227  26   8  21.4  561.  -57.  13.   34.  564.  -54.   0.  29.7  13.2  29.7   0.0 -1  0  0  0  0  0  0    7.396  4  0  4    0
228   3 16  12.8  935. 1937.  10.  -74.  935. 1937.  10.   3.4  10.1   3.4   0.0  0 -1  0  0  0  0  0    0.0    5  0 14    0
229  26   9  42.0  562. -219.   7.   12.  567. -212.   0.  29.0   7.1  29.0   0.0 -1  0  0  0  0  0  0    2.784  4  0  4    0
230   3 16  10.6  802. 1628.  18.   17.  802. 1628.  18.   3.2  17.8   3.2   0.0  0 -1  0  0  0  0  0    0.0    4  0 14    0
231  26   8  23.7  582.   37.   7.   25.  584.   40.   0.  22.8   7.3  22.8   0.0 -1  0  0  0  0  0  0   10.863  4  0  4    0
232  25   1   1.3  374.-1563.  26.   22.  380.-1558.   0.  40.8  25.9  40.8   0.0 -1  0  0  0  0  0  0    2.708  4  0 12    0
233  26   8  22.8  564.  -42.   9.   33.  566.  -39.   0.  25.0   9.1  25.0   0.0 -1  0  0  0  0  0  0    9.516  4  0  4    0
234  26   8  41.3  536. -981.  27.  -62.  534. -968.   0.  43.7  27.0  43.7   0.0 -1  0  0  0  0  0  0   57.265  4  0 12    0
235  26   9  34.5  572. -132.  13.   14.  579. -122.   0.  35.1  12.9  35.1   0.0 -1  0  0  0  0  0  0    1.887  4  0  4    0
236   3 14  40.9  648.   95.  24.  -32.  667.  130.   8.  67.2  23.8  67.2  32.9 11  4  0  0  0  0  0    1.913  4  0  3   17
236   3 14  40.9  648.   95.  24.  -32.  674.  122.   0.  67.2  23.8  56.4   0.0 -1  4  0  0  0  0  0    1.913  4  0  3   17
237  26   9  45.1  562. -282.  15.    4.  570. -270.   0.  38.0  14.8  38.0   0.0 -1  0  0  0  0  0  0    0.341  4  0  4    0
238  14  13  36.4  861. 1644.  14.  -39.  861. 1644.  14.   3.1  13.8   3.1   0.0  0 -1  0  0  0  0  0    0.0    4  0 14    0
239   3 16  10.7  854. 1699.  18.  -26.  854. 1699.  14.  15.9  17.7  15.9   0.0  0 -1  0  0  0  0  0    0.0    4  0 14    0
240  26   8  45.4  641.  -42.   9.  -43.  641.  -37.   0.  26.3   9.0  26.3   0.0 -1  0  0  0  0  0  0   47.841  4  0  4    0
241   3 14  76.5  613.  271.  10.   26.  629.  286.   0.  50.6   9.9  50.6   0.0 -1  6  0  0  0  0  0    2.610  4  0  1    0
242   3 15  35.2  748. 1075.  12.   -2.  748. 1075.  11.   6.3  11.5   6.3   0.0  0 -1  0  0  0  0  0    0.0    4  0 14    0
243   3 15  26.6  796. 1621.  21.   22.  800. 1622.   0.  36.2  20.8  36.2   0.0 -1  0  0  0  0  0  0    0.093  4  0 14    0
244  26   8  35.8  575. -121.  11.   12.  578. -117.   0.  28.2  11.1  28.2   0.0 -1  0  0  0  0  0  0   41.707  4  0  4    0
245   3 14  35.4  619.   68.  17.   -7.  681.  334.  18. 103.3  30.2 101.3  30.9 29  7  *  *  *  *  *    2.439  3  0  3   18
```

```
245 [●]    35.4 669.  237.  29.  -7. 667.  334.  26. 106.3 28.5 [●]   25.5 29  7 0 0 0 0 0 0.244  3 0  3 18
245 [●]4   35.4 669.  237.  29.  -7. 681.  334.  10. 117.2 28.2 [●]   34.9 29  7 0 0 0 0 0 0.244  3 0  3 18
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245  3 14  35.4 669.  237.  29.  -7. 682.  334.   9. 108.3 28.2 108.3 84.6 29  7 0 0 0 0 0 0.244  3 0  3 18
245  3 14  35.4 669.  237.  29.  -7. 682.  334.   9. 109.0 28.2 109.0 24.6 29  7 0 0 0 0 0 0.244  3 0  3 18
245  3 14  35.4 669.  237.  29.  -7. 682.  334.   9. 108.9 28.2 108.9 29.7 29  7 0 0 0 0 0 0.244  3 0  3 18
245  3 14  35.4 669.  237.  29.  -7. 682.  334.   9. 104.4 28.2 104.4 89.2 29  7 0 0 0 0 0 0.244  3 0  3 18
245  3 14  35.4 669.  237.  29.  -7. 682.  334.   9. 104.3 28.2 104.3 48.8 29  7 0 0 0 0 0 0.244  3 0  3 18
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246 26  8  21.9 566. -167.  13.  14. 570. -162.   0.  29.9 12.6  29.9  0.0 -1  0 0 0 0 0 0 7.661  4 0  4  0
247 14 11  65.8 819. 1896.  18.  36. 824. 1897.   0.  34.5 18.3  34.5  0.0 -1  0 0 0 0 0 0 0.128  4 0 14  0
248 25  1   2.2 923. 2018.   6. -52. 923. 2018.   6.   3.3  6.0   3.3  0.0  0 -1 0 0 0 0 0 0.0    4 0 14  0
249  3 16   7.6 723.  734.  19. -22. 725.  735.   0.  34.9 18.9  34.9  0.0 -1  0 0 0 0 0 0 0.084  4 0  2  0
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251  3 14  38.1 684.  309.  17. -40. 685.  311.  16.  20.7 16.5  20.7  6.8 34  8 0 0 0 0 0 1.911  5 0  1 19
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257 26  8  37.8 608.   42.  13.   1. 612.   48.   0.  30.7 12.8  30.7  0.0 -1  0 0 0 0 0 0 7.571  4 0  4  0
258 26  8  49.4 537. -310.   8.  25. 539. -308.   0.  23.1  7.4  23.1  0.0 -1  0 0 0 0 0 0 54.069 4 0  4  0
259 26  8  35.9 624. -121.  15. -37. 625. -112.   0.  33.5 14.6  33.5  0.0 -1  0 0 0 0 0 0 34.325 4 0  4  0
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286  2  4  29.4 641.  331.  13.   6. 643.  334.   0.  29.4 13.2  29.4  0.0 -1  7 0 0 0 0 0 0.507  4 0  1 21
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329 26  9  39.0  554. -228.   6.   18.  559. -223.   0.  25.5   5.8  25.5   0.0 -1  0   0   0   0   0   0    0.622  4  0  4   0
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345 26  8  47.7  569. -114.   5.   19.  570. -112.   0.  19.4   5.0  19.4   0.0 -1  0   0   0   0   0   0   13.346  4  0  4   0
346  3 14  53.5  642.  325.  22.    4.  651.  334.  27.  41.9  27.1  41.9  28.2 29  7   0   0   0   0   0    8.030  3  0  1  24
346  3 14  53.5  642.  325.  22.    4.  685.  334.  22.  45.6  29.3  45.6  16.8 34  8   0   0   0   0   0    8.030  3  0  1  25
347 26  9  31.1  588. -149.   9.   -5.  594. -139.   0.  34.0   9.1  34.0   0.0 -1  0   0   0   0   0   0    0.477  4  0  4   0
348 26  8  41.9  607. -284.   9.  -41.  607. -279.   0.  26.0   8.7  26.0   0.0 -1  0   0   0   0   0   0   48.875  4  0  4   0
349 25  1   2.2  779.  700.  13.  -82.  777.  704.   0.  28.3  12.8  28.3   0.0 -1 17   0   0   0   0   0    1.667  4  0  2   0
350 26  9  21.2  565. -171.   9.   15.  571. -163.   0.  31.2   9.3  31.2   0.0 -1  0   0   0   0   0   0    0.472  4  0  4   0
351 26  9  49.9  804. 1735.   9.   29.  809. 1741.   0.  28.6   8.7  28.6   0.0 -1  0   0   0   0   0   0    0.531  4  0 14   0
352  3 15  27.2  710.  732.  21.  -10.  713.  738.   0.  37.2  20.8  37.2   0.0 -1  0   0   0   0   0   0    5.126  4  0  2   0
353 26  9  49.5  573. -238.  10.   -2.  579. -228.   0.  33.6  10.2  33.6   0.0 -1  0   0   0   0   0   0    0.442  4  0  4   0
354  3 14  56.1  810.  824.  12.  -97.  802.  832.   0.  38.4  11.6  38.4   0.0 -1  0   0   0   0   0   0    1.663  5  0  8   0
355 26  9  31.5  561.  -53.   9.   35.  567.  -48.   0.  28.8   9.2  28.8   0.0 -1  0   0   0   0   0   0    0.475  4  0  4   0
356 26  8  35.8  568.  -75.  10.   25.  571.  -73.   0.  26.1   9.7  26.1   0.0 -1  0   0   0   0   0   0    9.119  4  0  4   0
357 26  8  39.0  526. -430.  28.   20.  534. -422.   0.  43.4  28.2  43.4   0.0 -1  0   0   0   0   0   0   52.006  4  0 12   0
358 26  9  35.3  537. -298.  11.   27.  544. -291.   0.  31.3  10.4  31.3   0.0 -1  0   0   0   0   0   0    0.437  4  0  4   0
359 26  9  45.2  556. -139.  10.   29.  562. -133.   0.  30.5  10.1  30.5   0.0 -1  0   0   0   0   0   0    2.223  4  0  4   0
360  2  4  21.4  619.  208.  10.   11.  619.  209.   0.  25.1   9.9  25.1   0.0 -1  0   0   0   0   0   0    0.618  4  0  1   0
361  1  6 211.2  668.   78.  10.  -55.  666.   85.   0.  29.7   9.7  29.7   0.0 -1  0   0   0   0   0   0    0.736  4  0  5   0
362  1  6 502.1  713.  111.  19.  -94.  714.  119.   0.  37.3  18.9  37.3   0.0 -1  4   0   0   0   0   0    0.098  5  0  5   0
363  3 14  20.1  709.  250.  12.  -73.  714.  265.   0.  43.0  11.6  43.0   0.0 -1  0   0   0   0   0   0    2.380  5  0  1   0
364 26  9  33.9  601. -220.  15.  -27.  605. -205.   0.  39.0  14.7  39.0   0.0 -1  0   0   0   0   0   0    0.343  4  0  4   0
365  3 14  39.6  666.  248.  18.  -30.  673.  334.   9.  82.6  18.9  82.6  41.7 29  7   *   *   *   *   *    1.795  3  0  1  26
365  3 14  39.6  667.  282.  18.  -30.  672.  334.   7.  90.2  17.4  90.2  23.4 29  7   0   0   0   0   0    0.179  3  0  1  26
365  3 14  39.6  667.  282.  18.  -30.  672.  334.   5.  73.2  17.4  73.2  47.4 29  7   0   0   0   0   0    0.179  3  0  1  26
365  3 14  39.6  667.  282.  18.  -30.  671.  334.   0.  72.6  17.4  72.6  52.9 29  7   0   0   0   0   0    0.179  3  0  1  26
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365  3 14  39.6  667.  282.  18.  -30.  674.  334.  11.  89.8  17.5  89.8  24.1 29  7   0   0   0   0   0    0.179  3  0  1  26
365  3 14  39.6  667.  282.  18.  -30.  669.  334.   8.  76.8  17.5  76.8  32.9 29  7   0   0   0   0   0    0.179  3  0  1  26
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443  3 14  66.9  660.  163.  36.  19.  660.  164.  36.  86.7  36.2  86.7  54.3 10  4  0  0  0  0  0   0.185  3  0  3  27
443  3 14  66.9  660.  163.  36.  19.  664.  315.   0. 109.3  36.2 109.3   0.0 -1  0  0  0  0  0  0   0.185  3  0  3  27
444 26  9  38.6  427.-1428.  28. -13.  444.-1389.   0.  56.3  28.1  56.3   0.0 -1  0  0  0  0  0  0   0.265  4  0 12   0
445 26  8  37.9  674. -134.  10. -88.  674. -131.   0.  25.2   9.4  25.2   0.0 -1  0  0  0  0  0  0   4.423  4  0  5   0
446  1  6 836.8  672. -127.  19. -85.  667. -118.   0.  36.6  18.8  36.6   0.0 -1  0  0  0  0  0  0   0.098  4  0  5   0
447  8  7   4.0  684.  217.  11. -52.  685.  217.   0.  26.9  11.2  26.9   0.0 -1  4  0  0  0  0  0   0.565  4  0  1   0
448 25  1   2.1  599.  134.   6.  22.  599.  135.   0.  19.2   5.6  19.2   0.0 -1  0  0  0  0  0  0   2.778  4  0  3   0
449  3 15  16.8  854. 2025.  21.  17.  855. 2025.   0.  35.5  20.5  35.5   0.0 -1  0  0  0  0  0  0   0.469  4  0  4   0
450  3 14  57.7  781.  861.  14. -64.  776.  870.   0.  47.5  14.2  47.5   0.0 -1  0  0  0  0  0  0   1.466  5  0  8   0
451 26  9  39.3  540. -265.   9.  27.  547. -260.   0.  29.9   9.0  29.9   0.0 -1  0  0  0  0  0  0   2.406  4  0  4   0
452 14 11  65.8  848. 1673.  17. -23.  848. 1673.  17.   3.2  16.7   3.2   0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
453  8  7   4.0  616.  316.  12.  29.  616.  316.   0.  27.3  11.6  27.3   0.0 -1  6  0  0  0  0  0   0.551  4  0  1   0
454 14 11  58.2  817. 1685.  12.  10.  818. 1691.   0.  27.0  12.1  27.0   0.0 -1  0  0  0  0  0  0   0.835  4  0 14   0
455 26  9  23.0  616. -300.  14. -52.  614. -285.   0.  40.4  14.1  40.4   0.0 -1  0  0  0  0  0  0   0.353  4  0  4   0
456 26  9  37.8  658.  -64.  14. -63.  657.  -51.   0.  36.7  14.2  36.7   0.0 -1  0  0  0  0  0  0   1.760  4  0  4   0
457 26  8  20.1  622. -139.   5. -37.  622. -135.   0.  20.3   5.0  20.3   0.0 -1  0  0  0  0  0  0  13.362  4  0  4   0
458  3 15  24.6  628.  326.  24.  18.  632.  329.   0.  39.0  23.6  39.0   0.0 -1  7  0  0  0  0  0   0.107  4  0  1   0
459 26  8  44.1  612.   -6.  15. -10.  615.    1.   0.  32.8  14.8  32.8   0.0 -1  0  0  0  0  0  0  33.961  4  0  4   0
460 25  1   2.4  673.  175.  13. -46.  672.  178.   0.  29.4  13.3  29.4   0.0 -1  4  0  0  0  0  0   0.325  4  0  5   0
461 26  9  23.2  545. -213.  13.  30.  552. -206.   0.  33.2  13.0  33.2   0.0 -1  0  0  0  0  0  0   0.375  4  0  4   0
462 26  9  41.9  615. -155.  12. -33.  618. -142.   0.  37.2  11.4  37.2   0.0 -1  0  0  0  0  0  0   2.055  4  0  4   0
463 25  1   3.9  843. 1646.  15. -22.  839. 1648.   0.  30.1  14.6  30.1   0.0 -1  0  0  0  0  0  0   0.608  4  0 14   0
464  1  6 773.6  832. 2004.  17.  36.  836. 2010.   0.  34.6  16.4  34.6   0.0 -1  0  0  0  0  0  0   0.753  4  0 14   0
465 25  1   3.7  412.-1720.  33. -37.  410.-1696.   0.  48.1  33.3  48.1   0.0 -1  0  0  0  0  0  0   0.326  4  0 12   0
466  3 14  75.0  651.  158.  18. -27.  660.  170.  12.  46.3  17.4  46.3  26.5 10  4  0  0  0  0  0   2.385  4  0  3  28
466  3 14  75.0  651.  158.  18. -27.  654.  190.   0.  52.9  17.4  52.9   0.0 -1  0  0  0  0  0  0   2.385  4  0  3  28
467 25  1   1.3  794. 1566.  10.  16.  794. 1566.  10.   3.1   9.8   3.1   0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
468 26  9  49.4  565. -345.  10.  -7.  570. -333.   0.  35.3   9.6  35.3   0.0 -1  0  0  0  0  0  0   2.304  4  0  4   0
469  3 14  75.1  670.  -32.  25. -71.  635.   16.   0.  73.9  24.5  73.9   0.0 -1  0  0  0  0  0  0   0.836  4  0  5   0
470 26  8  43.9  619.  -29.   7. -20.  620.  -26.   0.  22.6   6.4  22.6   0.0 -1  0  0  0  0  0  0  11.706  4  0  4   0
471 26  8  37.2  599.  -17.  11.   2.  602.  -12.   0.  28.2  10.9  28.2   0.0 -1  0  0  0  0  0  0   8.447  4  0  4   0
472 26  8  33.7  627. -119.  11. -39.  627. -113.   0.  28.4  10.5  28.4   0.0 -1  0  0  0  0  0  0   8.691  4  0  4   0
473  1  6 631.2  863. 2029.  24.   9.  863. 2029.  23.   3.5  23.4   3.5   0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
474 26  9  40.5  582. -143.   7.   2.  586. -135.   0.  29.0   7.1  29.0   0.0 -1  0  0  0  0  0  0   2.787  4  0  4   0
475 14 12  40.7  900. 1556.  22. -89.  900. 1556.  22.   3.8  22.0   3.8   0.0  0 -1  0  0  0  0  0   0.0    5  0 14   0
476 26  8  49.7  640. -157.  13. -57.  638. -151.   0.  30.5  12.4  30.5   0.0 -1  0  0  0  0  0  0   7.720  4  0  4   0
477 14 11  29.4  836. 1580.  13. -23.  836. 1580.  13.   3.0  12.8   3.0   0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
478 25  1   2.2  722. 1161.  11.  35.  724. 1161.   0.  27.3  11.1  27.3   0.0 -1  0  0  0  0  0  0   0.368  4  0  8   0
479  3 14  45.7  585.  142.  13.  36.  594.  158.   0.  32.2  13.0  32.2   0.0 -1  0  0  0  0  0  0   2.887  4  0  3   0
480  3 15  34.1  859. 1686.  13. -32.  859. 1686.  13.   2.7  12.7   2.7   0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
481  1  6 724.5  807. 1806.  11.  36.  807. 1806.  11.   3.4  10.8   3.4   0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
482  3 15  13.1  801. 1226.  22. -35.  801. 1226.  19.  12.8  21.7  12.8   0.0  0 -1  0  0  0  0  0   0.0    4  0  8   0
483  3 14  40.1  693.  670.  23.  -1.  727.  700.   0.  65.5  22.8  65.5   0.0 -1 17  0  0  0  0  0   0.688  4  0  2   0
484 26  8  38.9  641.  -77.   9. -47.  640.  -71.   0.  27.1   9.3  27.1   0.0 -1  0  0  0  0  0  0  46.829  4  0  4   0
485 26  9  39.3  574.   11.  12.  31.  581.   18.   0.  32.5  12.3  32.5   0.0 -1  0  0  0  0  0  0   0.389  4  0  4   0
486  3 14  28.5  646.  114.  24. -27.  660.  160.  20.  76.4  24.5  76.4  13.2 10  4  *  *  *  *  *   1.880  3  0  3  29
486  3 14  28.5  656.  149.  22. -27.  660.  160.  20.  72.3  20.8  72.3  34.1 10  4  0  0  0  0  0   0.188  3  0  3  29
486  3 14  28.5  656.  149.  22. -27.  660.  161.  20.  77.0  20.8  77.0  13.8 10  4  0  0  0  0  0   0.188  3  0  3  29
486  3 14  28.5  656.  149.  22. -27.  660.  160.  20.  71.0  20.8  71.0   0.1 10  4  0  0  0  0  0   0.188  3  0  3  29
486  3 14  28.5  656.  149.  22. -27.  660.  161.  20.  76.9  20.8  76.9  24.4 10  4  0  0  0  0  0   0.188  3  0  3  29
486  3 14  28.5  656.  149.  22. -27.  660.  160.  20.  76.6  20.9  76.6  29.7 10  4  0  0  0  0  0   0.188  3  0  3  29
486  3 14  28.5  656.  149.  22. -27.  660.  161.  20.  76.5  20.7  76.5   4.2 10  4  0  0  0  0  0   0.188  3  0  3  29
486  3 14  28.5  656.  149.  22. -27.  660.  160.  20.  73.5  20.8  73.5  35.7 10  4  0  0  0  0  0   0.188  3  0  3  29
486  3 14  28.5  656.  149.  22. -27.  660.  160.  20.  75.9  20.9  75.9   2.6 10  4  0  0  0  0  0   0.188  3  0  3  29
486  3 14  28.5  656.  149.  22. -27.  660.  161.  20.  73.0  20.9  73.0   0.1 10  4  0  0  0  0  0   0.188  3  0  3  29
486  3 14  28.5  656.  149.  22. -27.  660.  161.  20.  72.7  20.9  72.7  24.4 10  4  0  0  0  0  0   0.188  3  0  3  29
486  3 14  28.5  656.  149.  22. -27.  649.  235.   0. 101.1  20.9 101.1   0.0 -1  0  0  0  0  0  0   0.188  3  0  3  29
487  3 14  37.1  589.   50.  16.  20.  616.   70.   0.  59.6  15.7  59.6   0.0 -1  0  0  0  0  0  0  12.787  4  0  3   0
488 26  8  47.6  921. 1759.   9. -84.  920. 1762.   0.  25.2   9.3  25.2   0.0 -1  0  0  0  0  0  0  63.188  4  0 14   0
489  3 14  77.2  715.  255.   9. -77.  716.  267.   0.  41.2   9.1  41.2   0.0 -1  8  0  0  0  0  0   2.719  5  0  1   0
490  3 14  25.1  601.   66.  20.  11.  664.  130.  17.  85.2  28.3  85.2  37.0 11  4  *  *  *  *  *  10.837  3  0  3  30
490  3 14  25.1  656.  121.  21.  11.  664.  130.  17.  83.0  18.2  83.0  24.7 11  4  0  0  0  0  0   1.084  3  0  3  30
```

```
490       25.1  656.  121.  21.  11.  664.  130.  17.  82.9  18.2  8●  44.2 11  4  0  0  0  0  0  1.084  3  0  3  30
490  3 14  25.1  656.  121.  21.  11.  664.  130.  17.  82.3  18.2  82.●  35.2 11  4  0  0  0  0  0  1.084  3  0  3  30
490  3 14  25.1  656.  121.  21.  11.  664.  130.  17.  84.0  18.3  84.0  16.5 11  4  0  0  0  0  0  1.084  3  0  3  30
490  3 14  25.1  656.  121.  21.  11.  664.  130.  17.  82.1  18.3  82.1  64.5 11  4  0  0  0  0  0  1.084  3  0  3  30
490  3 14  25.1  656.  121.  21.  11.  664.  130.  17.  82.5  18.3  82.5  39.5 11  4  0  0  0  0  0  1.084  3  0  3  30
490  3 14  25.1  656.  121.  21.  11.  664.  130.  17.  83.7  18.2  83.7  26.4 11  4  0  0  0  0  0  1.084  3  0  3  30
490  3 14  25.1  656.  121.  21.  11.  664.  130.  17.  82.4  18.2  82.4  53.5 11  4  0  0  0  0  0  1.084  3  0  3  30
490  3 14  25.1  656.  121.  21.  11.  664.  130.  17.  84.3  18.3  84.3  29.8 11  4  0  0  0  0  0  1.084  3  0  3  30
490  3 14  25.1  656.  121.  21.  11.  664.  130.  17.  82.9  18.3  82.9  37.2 11  4  0  0  0  0  0  1.084  3  0  3  30
490  3 14  25.1  656.  121.  21.  11.  686.  130.   4.  82.9  18.3  68.9  15.9 11  4  0  0  0  0  0  1.084  3  0  3  30
491  3 14  60.8  682.  301.  18. -39.  684.  334.  19.  66.2  19.5  66.2  29.2 29  7  0  0  0  0  0  9.021  3  0  1  31
491  3 14  60.8  682.  301.  18. -39.  685.  331.  18.  66.2  19.5  41.3   4.1 34  8  0  0  0  0  0  9.021  3  0  1  32
492 26  8  44.8  531. -288.  12.  34.  534. -286.   0.  28.2  11.8  28.2   0.0  0 -1  0  0  0  0  0 40.122  4  0 14   0
493 26  8  24.8  910. 1969.   7. -45.  910. 1969.   7.   3.7   7.1   3.7   0.0  0 -1  0  0  0  0  0   0.0   4  0 14   0
494 14 11  79.0  912. 1849.  20. -63.  912. 1849.  19.   7.1  19.8   7.1   0.0  0 -1  0  0  0  0  0   0.0   5  0 14   0
495 26  8  32.8  612. -315.   5. -50.  612. -311.   0.  20.5   5.0  20.5   0.0 -1  0  0  0  0  0  0 13.341  4  0  4   0
496 26  8  41.4  597.    4.  12.   6.  601.    9.   0.  29.6  12.0  29.6   0.0 -1  0  0  0  0  0  0  7.897  4  0  4   0
497  3 14  45.6  617.  163.  24.   8.  657.  210.   0.  75.0  24.4  75.0   0.0 -1  0  0  0  0  0  0  1.879  4  0  3   0
498  3 14  62.1  661.  319.   9. -15.  670.  334.  10.  30.5  10.8  30.5  23.4 29  7  0  0  0  0  0 14.123  3  0  1  33
498  3 14  62.1  661.  319.   9. -15.  675.  334.   8.  30.5  10.8  22.1   5.6 29  7  0  0  0  0  0 14.123  3  0  1  34
499  3 15  15.1  815. 1522.  14. -10.  815. 1525.   0.  29.3  13.8  29.3   0.0 -1  0  0  0  0  0  0  0.611  4  0 14   0
500 26  8  20.1  406.-1570.  32. -11.  416.-1549.   0.  48.5  31.7  48.5   0.0 -1  0  0  0  0  0  0  8.283  4  0 12   0
```

SUMMARY FOR TORNADO 4

TARGET	EVENT	SINGLE MISSILE P(A|I)	VAR(P(A|I))	CONFIDENCE BOUNDS		P(A)	MULTIPLE MISSILE P(A|I)**N	P(A)**N
1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	2	0.934579E-01	0.165442E-02	0.137362E-01	0.173180E+00	0.167814E-01	0.100000E+01	0.179561E+00
4	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	7	0.158158E-01	0.119747E-03	-0.563222E-02	0.372638E-01	0.283989E-02	0.568124E+00	0.102013E+00
4	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	3	0.0						

NAHISZ   0   0   1   11   0   0

TORNADO   7 PARAMETERS AND MISSILE HISTORY RESULTS

I,UMAX,UTRAN,WIDTH,TAU,YPOSET
TWT,PSTR,TWTP,YPLT,YPRT
SLOPE,GAMMA,DELTA,RR,RL,RMAX

```
3 0.253181E+03 0.405919E+02 0.292293E+04 0.240079E+01-0.841493E+03
  0.109722E+00 0.504925E+01 0.554013E+00-0.239084E+03-0.316202E+04
  0.115001E+00 0.633685E+00 0.413103E+03 0.232052E+04 0.602409E+03 0.354358E+03
```

NMIS	SUB SET	SET	LOD	XO	YO	ZO	OFFSET	X1	Y1	Z1	VMAX	ZMAX	VHIT	VE	WAL	TAR	D1	D2	D3	D4	DV	HWT	KEY	SF	IZ	NHT
1	3	15	18.7	880.	242.	14.	68.	879.	254.	0.	32.4	14.1	32.4	0.0	-1	0	0	0	0	0	0	0.152	4	0	1	0
2	3	15	15.1	2764.	-459.	35.	-685.	2764.	-457.	0.	47.4	34.6	47.4	0.0	-1	0	0	0	0	0	0	0.101	4	0	13	0
3	14	12	60.1	609.	1179.	17.	-440.	603.	1175.	0.	36.9	16.8	36.9	0.0	-1	0	0	0	0	0	0	0.315	5	0	8	0
4	1	6	722.1	1197.	85.	23.	-29.	1187.	135.	0.	68.4	23.2	68.4	0.0	-1	0	0	0	0	0	0	0.424	4	0	5	0
5	8	7	4.0	293.	356.	9.	381.	293.	356.	0.	23.8	8.9	23.8	0.0	-1	0	0	0	0	0	0	0.657	4	0	1	0
6	26	8	21.1	1102.	1482.	12.	-995.	1097.	1484.	0.	29.3	12.1	29.3	0.0	-1	0	0	0	0	0	0	10.596	4	0	14	0
7	26	8	43.4	484.	-111.	5.	597.	485.	-110.	0.	18.8	5.2	18.8	0.0	-1	0	0	0	0	0	0	13.159	4	0	4	0
8	12	18	1.8	749.	1806.	12.	-997.	743.	1800.	0.	41.0	12.1	41.0	0.0	-1	0	0	0	0	0	0	0.021	5	0	14	0
9	8	7	4.0	379.	376.	10.	309.	380.	376.	0.	24.8	9.8	24.8	0.0	-1	0	0	0	0	0	0	0.619	4	0	1	0
10	26	8	25.0	1210.	-164.	7.	146.	1212.	-158.	0.	27.6	7.1	27.6	0.0	-1	0	0	0	0	0	0	0.057	4	0	13	0
11	3	10	48.0	2251.	1668.	36.	-1909.	2242.	1666.	0.	48.2	36.2	48.2	0.0	-1	0	0	0	0	0	0	1.150	3	0	5	0
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13	3	14	56.1	913.	-90.	13.	292.	964.	-91.	0.	25.5	13.7	25.5	0.0	0	-1	0	0	0	0	0	0.0	3	0	8	0
14	3	14	51.7	869.	948.	14.	-445.	867.	949.	14.	73.0	16.3	73.0	0.0	-1	0	0	0	0	0	0	1.104	5	0	5	0
15	3	14	62.9	1103.	-324.	17.	336.	1126.	-308.	0.	22.9	6.6	22.9	0.0	-1	0	0	0	0	0	0	0.511	4	0	8	0
16	25	1	3.6	661.	996.	7.	-340.	659.	993.	0.	36.7	21.0	36.7	0.0	-1	0	0	0	0	0	0	0.092	4	0	14	0
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18	25	1	3.0	1134.	1696.	12.	-1175.	1130.	1696.	0.	56.7	32.1	56.7	0.0	-1	0	0	0	0	0	0	0.347	4	0	12	0
19	25	1	3.0	1959.	-485.	32.	-122.	1928.	-501.	0.	124.2	15.0	124.2	29.7	53	11	*	*	*	*	*	2.324	3	0	1	1
20	3	14	61.6	835.	243.	12.	99.	835.	366.	7.	124.2	15.0	124.2	29.7	53	11	*	*	*	*	*	2.324	3	0	1	1
20	3	14	61.6	834.	293.	15.	99.	832.	366.	11.	121.8	15.0	121.8	63.2	53	11	0	0	0	0	0	0.232	3	0	1	1
20	3	14	61.6	834.	293.	15.	99.	838.	366.	13.	113.6	15.0	113.6	34.9	53	11	0	0	0	0	0	0.232	3	0	1	1
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22	14	11	68.7	585.	2046.	25.	-1063.	582.	2043.	0.	40.0	24.6	40.0	0.0	-1	0	0	0	0	0	0	0.704	4	0	5	0
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32	8	7	4.0	1243.	248.	10.	-181.	1243.	249.	0.	89.5	27.0	89.5	42.6	7	3	*	*	*	*	*	1.828	3	0	1	2
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 94  3 14  50.8  486.  187.  15.  376.  557.  219.   0.  84.0 15.2 84.0   0.0 -1  0 0 0 0 0 0   2.628 3 0  3  0
 95  3 14  22.7  714.   77.  15.  303.  718.  130.   1.  74.0 14.9 74.0  22.9 11  4 0 0 0 0 0   1.186 4 0  5  3
 95  3 14  22.7  714.   77.  15.  303.  719.  125.   0.  74.0 14.9 52.6   0.0 -1  4 0 0 0 0 0   1.186 4 0  5  0
 96  3 14  38.8  770.  212.  23.  165.  786.  174.  14.  72.8 23.3 72.8  35.2 13  4 0 0 0 0 0   1.514 4 0  1  4
 96  3 14  38.8  770.  212.  23.  165.  826.  195.   0.  72.8 23.3 59.6   0.0 -1  0 0 0 0 0 0   1.514 4 0  1  4
 97  1  6 242.9  239. 1244.  20. -238.  231. 1231.   0.  47.7 19.7 47.7   0.0 -1  0 0 0 0 0 0   0.028 5 0  8  0
 98 14 11  48.9  343. 1796.  12. -715.  343. 1796.  12.   3.8 12.1  3.8   0.0  0 -1 0 0 0 0 0   0.0   5 0 14  0
 99  3 14  37.5  867. -200.   9.  404.  864. -183.   0.  41.2  8.6 41.2   0.0 -1  0 0 0 0 0 0   1.620 4 0  5  0
100 14 12  75.7  680. 1743.  25. -903.  678. 1750.   0.  39.0 24.4 39.0   0.0 -1  0 0 0 0 0 0   1.000 4 0 14  0
101 25  1   2.5 2012.-1011.  30.  229. 2022. -984.   0.  53.2 29.8 53.2   0.0 -1  0 0 0 0 0 0   2.005 4 0 12  0
102  3 10  48.0  301. 1402.  13. -397.  301. 1402.  13.   3.8 12.9  3.8   0.0  0 -1 0 0 0 0 0   0.0   4 0  8  0
103 14 11  53.4 2187. 1623.  30.-1832. 2179. 1621.   0.  45.2 30.2 45.2   0.0 -1  0 0 0 0 0 0   1.035 5 0 13  0
104 26  8  34.2  604.  -61.   6.  479.  606.  -60.   0.  19.8  5.4 19.8   0.0 -1  0 0 0 0 0 0  12.855 4 0  4  0
105  1  6 474.1  775. 1612.  21. -871.  775. 1612.  21.   3.9 20.8  3.9   0.0  0 -1 0 0 0 0 0   0.0   4 0 14  0
106  3 14  67.6  650. 1168.  17. -459.  623. 1177.   0.  80.8 16.1 80.8   0.0 -1  0 0 0 0 0 0   2.686 5 0  8  0
107 14 12  72.3 1178. 1376.  16. -969. 1171. 1381.   0.  35.0 15.5 35.0   0.0 -1  0 0 0 0 0 0   3.316 5 0  8  0
108  1  6 749.0  532.  812.  16. -117.  500.  844.   0.  62.6 15.7 62.6   0.0 -1  0 0 0 0 0 0   0.166 4 0  8  0
109  3 14  27.2 1139. 1089.  16. -731. 1096. 1109.   0.  69.9 15.9 69.9   0.0 -1  0 0 0 0 0 0   1.375 4 0  8  0
110  3 14  23.7 1311. 1680.  18.-1283. 1286. 1703.   0.  53.8 17.6 53.8   0.0 -1  0 0 0 0 0 0   3.387 4 0  7  0
111 25  1   1.5  772.  889.   7. -336.  769.  886.   0.  24.3  7.1 24.3   0.0 -1  0 0 0 0 0 0   2.446 4 0  8  0
112 25  1   1.4 1180. -221.  14.  208. 1185. -206.   0.  39.4 13.8 39.4   0.0 -1  0 0 0 0 0 0   0.317 4 0  5  0
```

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113 25  1    3.9  697.  842.   8.  -250.  690.  836.   0.  31.4   7.8  31.4   0.0 -1  0  0  0  0  0  0  0.464  4  0  8   0
114 14 12   11.8 2129. 1490.  29. -1695. 2126. 1496.   0.  42.9  29.1  42.9   0.0 -1  0  0  0  0  0  0  0.880  4  0 13   0
115  3 15   29.7  523.  788.  15.   -93.  518.  799.   0.  35.6  14.7  35.6   0.0 -1  0  0  0  0  0  0  3.011  4  0  8   0
116  3 16   18.2 1185. 2042.  20. -1465. 1182. 2044.   0.  35.7  20.0  35.7   0.0 -1  0  0  0  0  0  0  0.127  4  0 14   0
117  3 14   30.7 -323. 1091.  41.   254. -298. 1138.  47.  79.8  46.8  79.8   0.0  0 -1  0  0  0  0  0  0.0    3  0  9   0
118  3 14   78.2  270.  241.  24.   481.  299.  271.   0.  66.0  23.5  66.0   0.0 -1  0  0  0  0  0  0  7.496  5  0  1   0
119  1  6  827.3  782. 1271.  19.  -624.  778. 1266.   0.  37.6  18.7  37.6   0.0 -1  0  0  0  0  0  0  0.029  5  0  8   0
120  3 14   51.9  880. -273.  14.   449.  880. -273.  14.   5.9  13.7   5.9   0.0  0 -1  0  0  0  0  0  0.0    4  0  5   0
121  3 14   33.0  680.  -90.  12.   449.  695.  -97.   0.  38.5  11.4  38.5   0.0 -1  0  0  0  0  0  0  6.958  4  0  5   0
122 26  8   35.4  524.  -47.   6.   522.  526.  -46.   0.  20.9   6.3  20.9   0.0 -1  0  0  0  0  0  0 11.893  4  0  4   0
123  3 14   52.5 2605. -526.  40.  -528. 2355. -428.   0. 136.4  45.6 136.0   0.0 -1  0  0  0  0  0  0  0.358  3  0 13   0
124  3 15   19.7 2684.  288.  38. -1182. 2679.  292.   0.  50.2  38.2  50.2   0.0 -1  0  0  0  0  0  0  0.433  5  0 13   0
125 26  9   38.7  576.   18.  14.   439.  588.   25.   0.  37.6  13.7  37.6   0.0 -1  0  0  0  0  0  0  0.361  4  0  4   0
126 12 18    2.8 -441.  947.  30.   440. -396.  956.   0.  68.7  30.0  68.7   0.0 -1  0  0  0  0  0  0  0.739  4  0 10   0
127  3 15   33.9  274.  426.  17.   342.  281.  429.   0.  34.1  16.6  34.1   0.0 -1  0  0  0  0  0  0  0.137  4  0  1   0
128  3 16    6.5 1473.  232.  13.  -324. 1473.  237.   0.  29.1  13.2  29.1   0.0 -1  0  0  0  0  0  0  0.862  4  0  6   0
129  3 10   48.0 1154. 1203.  21.  -825. 1145. 1207.   0.  39.2  20.8  39.2   0.0 -1  0  0  0  0  0  0  0.304  5  0  8   0
130 25  1    2.1  747. -333.  11.   583.  747. -333.  11.   3.2  10.6   3.2   0.0  0 -1  0  0  0  0  0  0.0    4  0  5   0
131  3 14   39.4  629.  882.  18.  -234.  472.  753.   0. 123.0  23.5 122.0   0.0 -1  0  0  0  0  0  0  6.274  3  0  8   0
132 26  9   37.7  528.  -23.   5.   502.  531.  -20.   0.  22.2   5.1  22.2   0.0 -1  0  0  0  0  0  0  0.660  4  0  4   0
133  3 14   79.8  -28. 1092.  40.    55.  -28. 1093.  40.  21.6  39.7  21.6   0.0  0 -1  0  0  0  0  0  0.0    3  0  9   0
134  3 14   55.5  839.   47.  22.   240.  893.  141.   0. 120.4  22.2 120.0   0.0 -1 26  0  0  0  0  0  4.494  4  0  5   0
135  3 14   43.4 1532. 1807.  15. -1526. 1520. 1809.   0.  44.0  14.4  44.0   0.0 -1  0  0  0  0  0  0  9.598  5  0  7   0
136 14 13   47.0  884.  -10.  16.   253.  885.   -1.   0.  35.7  15.8  35.7   0.0 -1  0  0  0  0  0  0  2.742  4  0  5   0
137 14 11   58.7 1152.  556.  14.  -346. 1134.  574.   0.  42.5  13.8  42.5   0.0 -1  0  0  0  0  0  0  0.726  4  0  2   0
138  3 15   31.3  282.  999.  22.   -86.  279.  991.   0.  38.2  21.4  38.2   0.0 -1  0  0  0  0  0  0  0.467  4  0  8   0
139 14 12   44.5  275.  778.  25.    82.  275.  762.   0.  40.2  24.5  40.2   0.0 -1  0  0  0  0  0  0  0.242  4  0  8   0
140 14 13   19.4  866.  -87.  23.   321.  882.  -80.   0.  41.0  23.1  41.0   0.0 -1  0  0  0  0  0  0  0.422  4  0  5   0
141 25  1    2.9 1643.  610.  11.  -718. 1639.  61.    0.  28.1  10.6  28.1   0.0 -1  0  0  0  0  0  0  1.909  4  0  6   0
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143 14 11   28.3 2221. -558.  34.  -245. 2189. -587.   0.  55.3  33.6  55.3   0.0 -1  0  0  0  0  0  0  0.176  4  0 13   0
144  3 15   11.0 1349. 1305.  18. -1032. 1349. 1305.  18.   3.4  18.1   3.4   0.0  0 -1  0  0  0  0  0  0.0    5  0  7   0
145  1  6  419.9 1245. -137.  23.   102. 1256. -151.   0.  43.9  22.6  43.9   0.0 -1  0  0  0  0  0  0  0.863  4  0  5   0
146  3 14   51.5  387. 1383.  10.  -441.  366. 1418.   0.  74.8   9.9  74.8   0.0 -1  0  0  0  0  0  0 18.211  4  0  8   0
147  3 14   45.6  713.  238.  24.   184.  721.  280.  42.  69.6  42.1  69.6  41.3 35  8  0  0  0  0  0  1.508  3  0  1   5
147  3 14   45.6  713.  238.  24.   184.  727.  280.  50.  69.6  50.0  45.8   0.6 35  8  0  0  0  0  0  1.508  3  0  1   6
148  3 15   19.0  358.  431.  17.   282.  361.  426.   0.  33.2  16.8  33.2   0.0 -1  0  0  0  0  0  0  0.677  4  0  1   0
149 25  1    2.1 1448. -842.  30.   485. 1460. -846.   0.  44.6  30.3  44.6   0.0 -1  0  0  0  0  0  0  3.882  4  0 12   0
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153  3 14   30.2 1152.  502.  12.  -307. 1082.  517.   0. 108.1  11.6 108.1   0.0 -1 18  0  0  0  0  0  1.071  4  0  2   0
154  3 14   68.8 1063.  209.  21.   -30. 1050.  200.  24.  33.6  24.3  33.6  13.0142 26  0  0  0  0  0  8.209  3  0  1   7
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155  3 14   70.5 1170. 1115.  13.  -770. 1169. 1115.  13.  10.2  12.6  10.2   0.0  0 -1  0  0  0  0  0  0.0    4  0  8   0
156  3 14   19.1 2795. -619.  45.  -588. 2784. -625.   0.  53.4  44.4  53.4   0.0 -1  0  0  0  0  0  0  0.046  5  0 13   0
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159  3 14   47.4 1076.  298.  19.  -105. 1075.  301.  19.  34.8  19.5  34.8  13.1  7  3  0  0  0  0  0  1.780  3  0  1   9
159  3 14   47.4 1076.  298.  19.  -105. 1074.  300.  21.  34.8  21.1  30.1   5.1  7  3  0  0  0  0  0  1.780  3  0  1  10
160  1  6  548.3  678. -249.  15.   568.  682. -243.   0.  34.0  15.0  34.0   0.0 -1  0  0  0  0  0  0  0.570  5  0  5   0
161 25  1    1.7  326. 1497.  14.  -483.  318. 1498.   0.  32.9  14.2  32.9   0.0 -1  0  0  0  0  0  0  0.620  4  0 14   0
162  3 14   59.7 1156.  333.  17.  -185. 1051.  465.  46. 157.0  47.2 157.0  32.2101 19  *  *  *  *  *  9.469  3  0  1  11
162  3 14   59.7 1123.  369.  35.  -185. 1054.  441.  42. 118.9  44.4 118.9  20.0 74 14  0  0  0  0  0  0.947  3  0  1  11
162  3 14   59.7 1123.  369.  35.  -185. 1088.  416.  41. 120.8  41.2 120.8  31.1 72 14  0  0  0  0  0  0.947  3  0  1  11
162  3 14   59.7 1123.  369.  35.  -185. 1052.  465.  47. 164.7  47.0 164.7  97.4101 19  0  0  0  0  0  0.947  3  0  1  11
162  3 14   59.7 1123.  369.  35.  -185.  769.  816.   0. 190.9  61.0 181.2   0.0 -1  0  0  0  0  0  0  0.947  3  0  1  11
162  3 14   59.7 1123.  369.  35.  -185. 1064.  465.  46. 146.3  46.1 146.3  27.3101 19  0  0  0  0  0  0.947  3  0  1  11
162  3 14   59.7 1123.  369.  35.  -185. 1067.  465.  49. 137.1  49.3 137.1  32.9101 19  0  0  0  0  0  0.947  3  0  1  11
162  3 14   59.7 1123.  369.  35.  -185. 1049.  465.  47. 138.7  47.4 138.7  20.2101 19  0  0  0  0  0  0.947  3  0  1  11
162  3 14   59.7 1123.  369.  35.  -185. 1062.  465.  42. 110.6  45.5 110.6   0.1 98 18  0  0  0  0  0  0.947  3  0  1  11
162  3 14   59.7 1123.  369.  35.  -185. 1062.  465.  43. 127.2  45.1 127.2  46.2101 19  0  0  0  0  0  0.947  3  0  1  11
162  3 14   59.7 1123.  369.  35.  -185. 1065.  465.  47. 120.3  47.4 120.3  82.0101 19  0  0  0  0  0  0.947  3  0  1  11
162  3 14   59.7 1123.  369.  35.  -185. 1032.  432.  42. 120.3  47.4  94.9   2.4 74 14  0  0  0  0  0  0.947  3  0  1  11
163  3 14   46.4  877. -179.  20.   382.  908. -210.   0.  60.3  20.1  59.7   0.0 -1  0  0  0  0  0  0  0.965  4  0  5   0
164  3 15   22.7  238.  530.  12.   290.  243.  533.   0.  29.4  12.0  29.4   0.0 -1  0  0  0  0  0  0  1.461  4  0  2   0
165  3 15   28.8 1096.  259.  20.   -89. 1091.  250.   0.  37.4  19.4  37.4   0.0 -1 26  0  0  0  0  0  0.123  4  0  1   0
166  3 16    9.1  343. 1976.  16.  -848.  341. 1978.   0.  31.6  15.9  31.6   0.0 -1  0  0  0  0  0  0  0.740  4  0 14   0
167 14 12   69.2  529. 1678.  20.  -754.  522. 1678.   0.  40.3  20.2  40.3   0.0 -1  0  0  0  0  0  0  0.229  5  0 14   0
168  1  6  149.1  930. -226.  20.   381.  950. -228.   0.  43.2  19.9  43.2   0.0 -1  0  0  0  0  0  0  0.189  4  0  5   0
169  3 14   71.1  947. -153.  15.   315.  991. -169.   0.  70.8  14.8  70.8   0.0 -1  0  0  0  0  0  0  5.934  4  0  5   0
170  3 14   29.1 2119. -1307. 35.   376. 2213. -1273.  0.  94.6  34.8  94.6   0.0 -1  0  0  0  0  0  0  0.861  4  0 13   0
171  2  4   38.6 1198. -125.  13.   126. 1202. -115.   0.  32.2  13.1  32.2   0.0 -1  0  0  0  0  0  0  0.703  4  0  5   0
172  8  7    4.0 1211.  231.  15.  -146. 1209.  230.   0.  30.7  14.6  30.7   0.0 -1  0  0  0  0  0  0  0.469  4  0  1   0
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173        557.4  786.  129.   22.   216.   803.   118.    0.   45.0  22.2        0.0 -1  4  0  0  0  0  0   0.087  4  0  5   0
174  3 16   7.4 1937.  719.   22.  -996.  1932.   721.    0.   38.1  22.2  38.1   0.0 -1  0  0  0  0  0  0   3.051  4  0  6   0
175  3 14  34.3  950.  -21.   20.   216.   976.   -71.    0.   75.2  19.4  74.3   0.0 -1  0  0  0  0  0  0   4.942  4  0  5   0
176  1  6 831.1 1076. 1153.   21.  -735.  1074.  1164.    0.   39.8  20.8  39.8   0.0 -1  0  0  0  0  0  0   0.054  4  0  8   0
177 25  1   3.3  752. -181.    9.   468.   757.  -179.    0.   24.7   8.6  24.7   0.0 -1  0  0  0  0  0  0   0.436  4  0  5   0
178 25  1   1.2  670.  120.    6.   300.   673.   123.    0.   22.5   6.2  22.5   0.0 -1  4  0  0  0  0  0   0.530  4  0  5   0
179 25  1   2.4 1248.  349.    8.  -258.  1247.   350.    7.   13.7   7.6  13.7   0.0152 28 0  0  0  0  0   0.469  4  0  1  12
179 25  1   2.4 1248.  349.    8.  -258.  1247.   350.    7.   13.7   7.6  13.4   0.0152 28 0  0  0  0  0   0.469  4  0  1  13
180 26  9  21.5 1826. -486.   35.   -33.  1815.  -387.    0.  102.8  34.7 102.8   0.0 -1  0  0  0  0  0  0   0.176  4  0 12   0
181  3 14  79.6 1993. -319.   11.  -269.  1946.  -349.    0.   93.3  10.6  93.3   0.0 -1  0  0  0  0  0  0   2.594  4  0  6   0
182 14 12  70.5  331. 1698.   20.  -635.   320.  1696.    0.   41.4  20.1  41.4   0.0 -1  0  0  0  0  0  0   0.230  5  0 14   0
183 25  1   1.8 1940.-1290.   34.   484.  1940.-1290.   34.    3.3  33.6   3.3   0.0  0 -1  0  0  0  0  0   0.0    4  0 12   0
184  3 14  68.0  984. -300.   23.   399.   995.  -299.   23.   33.9  23.1  33.9   0.0  0 -1  0  0  0  0  0   0.0    3  0  5   0
185  2  4  29.2 1486. 1287.   14.-1111.  1483.  1289.    0.   30.1  13.7  30.1   0.0 -1  0  0  0  0  0  0   5.238  4  0  7   0
186  3 14  76.8  321.   52.   17.   587.   348.    55.    0.   47.4  16.4  47.4   0.0 -1  0  0  0  0  0  0   2.481  4  0  3   0
187  3 10  48.0  600. 1524.   12.  -688.   598.  1526.    0.   30.1  12.0  30.1   0.0 -1  0  0  0  0  0  0   0.506  5  0 14   0
188  3 16   6.5  913. 1977.   17.-1233.   910.  1977.    0.   32.6  16.4  32.6   0.0 -1  0  0  0  0  0  0   0.073  5  0 14   0
189 25  1   2.2  705. 1272.   10.  -573.   703.  1275.    0.   28.3  10.3  28.3   0.0 -1  0  0  0  0  0  0   0.775  5  0  8   0
190  3 14  32.9  877. 1173.   13.  -616.   867.  1175.   13.   38.2  13.4  38.2   0.0  0 -1  0  0  0  0  0   0.0    3  0  8   0
191 25  1   1.3  824.  983.   11.  -440.   821.   981.    0.   27.5  11.3  27.5   0.0 -1  0  0  0  0  0  0   1.823  4  0  8   0
192  3 14  56.1 1792.  196.   19.  -512.  1634.   248.    0.  115.1  20.4 115.1   0.0 -1  0  0  0  0  0  0   1.783  3  0  6   0
193  1  6 890.2  670. 1855.   14.  -980.   660.  1857.    0.   34.2  14.3  34.2   0.0 -1  0  0  0  0  0  0   0.824  4  0 14   0
194 25  1   1.5 1861. -587.   27.    19.  1858.  -547.    0.   57.8  26.6  57.8   0.0 -1  0  0  0  0  0  0   0.511  4  0 12   0
195  3 14  71.3 1197.   11.   16.    26.  1167.    95.    0.  117.6  15.6 117.6   0.0 -1 26  0  0  0  0  0   5.747  4  0  5   0
196 14 12  55.3 2512. -929.   39.  -168.  2507.  -883.    0.   65.4  38.4  65.4   0.0 -1  0  0  0  0  0  0   1.439  5  0 13   0
197  3 16   8.0  977. 1777.   20.-1129.   973.  1777.    0.   36.2  19.4  36.2   0.0 -1  0  0  0  0  0  0   0.324  5  0 14   0
198 25  1   2.8  641.  276.    9.   205.   642.   284.    0.   29.4   9.3  29.4   0.0 -1  0  0  0  0  0  0   2.080  4  0  1   0
199 26  8  35.9  382.   37.   12.   556.   385.    40.    0.   27.9  11.5  27.9   0.0 -1  0  0  0  0  0  0   8.134  4  0  4   0
200  3 14  70.3 1169. 1014.   24.  -696.  1121.  1034.    0.   82.5  24.1  82.5   0.0 -1  0  0  0  0  0  0   5.108  5  0  8   0
201 25  1   3.4  567. 1275.   15.  -482.   555.  1285.    0.   40.4  14.7  40.4   0.0 -1  0  0  0  0  0  0   3.020  4  0  8   0
202 26  8  22.1 1800.-1054.   29.   404.  1818.-1051.    0.   47.0  28.5  47.0   0.0 -1  0  0  0  0  0  0  20.393  4  0 12   0
203  3 15  21.9  754.  232.   22.   162.   759.   228.    0.   38.2  22.1  38.2   0.0 -1  4  0  0  0  0  0   0.112  4  0  1   0
204  3 15  23.7  379.  743.   14.    37.   379.   739.    0.   29.5  13.5  29.5   0.0 -1  0  0  0  0  0  0   6.825  4  0  2   0
205 25  1   1.1  609. 1787.    6.  -889.   606.  1787.    0.   21.1   5.5  21.1   0.0 -1  0  0  0  0  0  0   0.562  5  0 14   0
206 26  8  34.0  975. 1979.   10.-1277.   972.  1980.    0.   25.4   9.4  25.4   0.0 -1  0  0  0  0  0  0  62.870  4  0 14   0
207  3 15  10.2  829.  723.   19.  -252.   818.   732.    0.   41.0  19.3  41.0   0.0 -1  0  0  0  0  0  0   5.402  4  0  2   0
208 25  1   3.2  739. 1649.   12.  -874.   732.  1651.    0.   30.2  11.7  30.2   0.0 -1  0  0  0  0  0  0   3.557  4  0 14   0
209  1  6 688.1 1131. 1031.   19.  -682.  1128.  1028.    0.   37.1  19.0  37.1   0.0 -1  0  0  0  0  0  0   0.145  5  0  8   0
210  3 15  27.3 1803. 1512.   20.-1491.  1799.  1512.    0.   36.2  20.2  36.2   0.0 -1  0  0  0  0  0  0   0.427  5  0  7   0
211 26  8  46.6  586. -117.   10.   532.   588.  -114.    0.   26.2   9.9  26.2   0.0 -1  0  0  0  0  0  0   8.991  4  0  4   0
212  3 14  43.6  320. 1982.   12.  -837.   299.  1973.    0.   46.1  11.8  46.1   0.0 -1  0  0  0  0  0  0   2.685  4  0 14   0
213  8  7   4.0  924.  284.   15.     8.   923.   286.    3.   27.4  14.5  27.4   9.3132 24 0  0  0  0  0   2.352  4  0  1  14
213  8  7   4.0  924.  284.   15.     8.   923.   286.    0.   28.7  14.5  28.7   0.0 -1 24  0  0  0  0  0   2.352  4  0  1  14
214  1  6 159.3  891. -260.   10.   432.   897.  -255.    0.   29.7   9.8  29.7   0.0 -1  0  0  0  0  0  0   0.735  4  0  5   0
215  8  7   4.0  971.  219.   14.    24.   970.   221.    0.   29.6  14.3  29.6   0.0 -1 26  0  0  0  0  0   0.475  4  0  1   0
216  3 14  51.8 1078. -213.   15.   272.  1080.  -213.   15.   20.4  14.7  20.4   0.0  0 -1  0  0  0  0  0   0.0    3  0  5   0
217  3 14  76.3  747. 1581.   17.  -829.   718.  1610.    0.   66.6  17.2  66.6   0.0 -1  0  0  0  0  0  0   4.227  5  0 14   0
218 14 11  28.4  877.  684.   12.  -255.   864.   683.    0.   36.5  12.0  36.5   0.0 -1 17  0  0  0  0  0   0.791  4  0  2   0
219 25  1   3.9  466. 1986.   13.  -939.   463.  1985.    0.   28.3  13.0  28.3   0.0 -1  0  0  0  0  0  0   1.651  4  0 14   0
220  3 16  19.0 1501.  494.   25.  -536.  1492.   492.    0.   41.0  24.4  41.0   0.0 -1  0  0  0  0  0  0   2.845  4  0  6   0
221 14 13  27.9 2193.  769.   34.-1206.  2185.   778.    0.   46.4  33.9  46.4   0.0 -1  0  0  0  0  0  0   0.173  4  0 13   0
222  3 14  31.1 1083.   30.   23.    89.  1143.   100.   27.  113.0  26.5 113.0  35.5140 26 0  0  0  0  0   0.873  3  0  5  15
222  3 14  31.1 1083.   30.   23.    89.  1158.   100.   27.  113.0  27.3 106.7  10.7140 26 0  0  0  0  0   0.873  3  0  5  16
223  3 10  48.0  473. 2005.   11.  -957.   473.  2005.   11.    3.2  11.2   3.2   0.0 -1  0  0  0  0  0  0   0.0    4  0 14   0
224  3 14  70.6  540.  252.   13.   291.   579.   280.   21.   80.7  21.0  80.7  10.6 17  5  *  *  *  *  *   2.300  3  0  1  17
224  3 14  70.6  569.  273.   20.   291.   579.   280.   21.   79.2  21.1  79.2  13.8 17  5  0  0  0  0  0   0.230  3  0  1  17
224  3 14  70.6  569.  273.   20.   291.   579.   280.   21.   81.7  20.6  81.7  14.5 17  5  0  0  0  0  0   0.230  3  0  1  17
224  3 14  70.6  569.  273.   20.   291.   578.   280.   21.   76.3  20.7  76.3  16.6 17  5  0  0  0  0  0   0.230  3  0  1  17
224  3 14  70.6  569.  273.   20.   291.   579.   280.   20.   76.8  20.5  76.8  32.7 17  5  0  0  0  0  0   0.230  3  0  1  17
224  3 14  70.6  569.  273.   20.   291.   578.   280.   20.   81.8  20.5  81.8  22.8 17  5  0  0  0  0  0   0.230  3  0  1  17
224  3 14  70.6  569.  273.   20.   291.   579.   280.   21.   78.7  20.9  78.7  55.4 17  5  0  0  0  0  0   0.230  3  0  1  17
224  3 14  70.6  569.  273.   20.   291.   579.   280.   21.   78.8  21.2  78.8  25.2 17  5  0  0  0  0  0   0.230  3  0  1  17
224  3 14  70.6  569.  273.   20.   291.   579.   280.   21.   83.2  20.8  83.2  17.7 17  5  0  0  0  0  0   0.230  3  0  1  17
224  3 14  70.6  569.  273.   20.   291.   578.   280.   21.   81.6  20.7  81.6  27.2 17  5  0  0  0  0  0   0.230  3  0  1  17
224  3 14  70.6  569.  273.   20.   291.   579.   280.   20.   79.4  20.3  79.4  24.1 17  5  0  0  0  0  0   0.230  3  0  1  17
224  3 14  70.6  569.  273.   20.   291.   592.   280.   20.   83.7  20.3  83.7   0.1 17  5  0  0  0  0  0   0.230  3  0  1  17
225  3 15  14.0  947.  321.   21.   -34.   948.   316.    0.   35.4  20.6  35.4   0.0 -1 24  0  0  0  0  0   0.591  4  0  1   0
226 26  8  23.8  969. -171.   10.   313.   975.  -166.    0.   30.4  10.0  30.4   0.0 -1  0  0  0  0  0  0   4.226  4  0  5   0
227  3 14  50.8 1717. 1360.   14.-1320.  1694.  1378.    0.   49.2  13.8  49.2   0.0 -1  0  0  0  0  0  0   1.986  4  0  7   0
228  3 14  32.2 1155. 1081.   15.  -736.  1091.  1102.    0.   67.9  14.7  67.9   0.0 -1  0  0  0  0  0  0   7.298  3  0  8   0
229  3 15  28.4  430.  295.   17.   333.   433.   300.    0.   33.7  17.1  33.7   0.0 -1  0  0  0  0  0  0   0.134  4  0  1   0
230 14 13  25.9 2633.  467.   42.-1280.  2625.   476.    0.   52.6  41.7  52.6   0.0 -1  0  0  0  0  0  0   0.128  4  0 13   0
231 14 11  54.4 1089. 1465.   15.  -975.  1089.  1465.   15.    3.4  14.8   3.4   0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
232  3 16   9.1 2056. 1240.   33.-1462.  2052.  1244.    0.   44.7  32.4  44.7   0.0 -1  0  0  0  0  0  0   0.015  4  0 13   0
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233 25  1    3.0 1330.   233.  15.  -228. 1324.   249.   0.   41.1  14.7  41.1   0.0 -1 27  0  0  0  0  0   1.509  4  0  6   0
234  3 15   33.5 1158.  1268.  23.  -876. 1157.  1268.   0.   38.0  23.2  38.0   0.0 -1  0  0  0  0  0  0   2.200  4  0  8   0
235  3 14   64.5 1788.   628.  18.  -828. 1734.   655.   0.   69.0  17.5  69.0   0.0 -1  0  0  0  0  0  0   1.902  4  0  6   0
236  3 15   31.6 2323.  -860.  43.   -92. 2313.  -831.   0.   56.0  42.6  56.0   0.0 -1  0  0  0  0  0  0   0.075  4  0 13   0
237  3 14   55.5  214.   176.  15.   567.  237.   174.   0.   44.0  15.1  44.0   0.0 -1  0  0  0  0  0  0   2.617  4  0  3   0
238 25  1    1.1 1961.  1596.   8.-1660. 1961.  1596.   8.    3.4   7.8   3.4   0.0  0 -1  0  0  0  0  0   0.0    4  0  7   0
239 25  1    1.4  585.  1153.   6.  -404.  575.  1151.   0.   29.7   6.2  29.7   0.0 -1  0  0  0  0  0  0   5.289  4  0  8   0
240 25  1    2.0 1747.   310.   6.  -566. 1742.   311.   0.   21.0   5.7  21.0   0.0 -1  0  0  0  0  0  0   0.556  4  0  6   0
241  3 14   78.8  616.  1467.  10.  -657.  612.  1460.   0.   32.3  10.1  32.3   0.0 -1  0  0  0  0  0  0   0.584  5  0 14   0
242  3 16    5.4  726.  1558.  15.  -799.  725.  1558.   0.   32.2  15.1  32.2   0.0 -1  0  0  0  0  0  0   0.076  5  0 14   0
243  3 14   34.6  767.    73.  23.   270.  820.   130.  36.  104.3  36.4 104.3  54.2 11  4  *  *  *  *  *   0.887  3  0  5  18
243  3 14   34.6  793.   101.  32.   270.  820.   130.  36.   78.7  36.1  78.7  27.3 11  4  0  0  0  0  0   0.089  3  0  5  18
243  3 14   34.6  793.   101.  32.   270.  821.   130.  33.  104.6  33.7 104.6  25.7 11  4  0  0  0  0  0   0.089  3  0  5  18
243  3 14   34.6  793.   101.  32.   270.  895.   192.  27.  110.5  35.5 110.5  71.2139 26  0  0  0  0  0   0.089  3  0  5  18
243  3 14   34.6  793.   101.  32.   270.  818.   130.  37.   85.9  37.4  85.9  44.6 11  4  0  0  0  0  0   0.089  3  0  5  18
243  3 14   34.6  793.   101.  32.   270.  823.   130.  37.   95.0  37.3  95.0  65.6 11  4  0  0  0  0  0   0.089  3  0  5  18
243  3 14   34.6  793.   101.  32.   270.  821.   130.  37.  102.3  37.5 102.3  29.1 11  4  0  0  0  0  0   0.089  3  0  5  18
243  3 14   34.6  793.   101.  32.   270.  820.   130.  33.  106.4  33.8 106.4  18.6 11  4  0  0  0  0  0   0.089  3  0  5  18
243  3 14   34.6  793.   101.  32.   270.  820.   130.  36.  107.2  35.6 107.2  52.2 11  4  0  0  0  0  0   0.089  3  0  5  18
243  3 14   34.6  793.   101.  32.   270.  817.   130.  33.  102.8  33.7 102.8  18.9 11  4  0  0  0  0  0   0.089  3  0  5  18
243  3 14   34.6  793.   101.  32.   270.  817.   130.  33.  102.7  33.8 102.7  25.7 11  4  0  0  0  0  0   0.089  3  0  5  18
243  3 14   34.6  793.   101.  32.   270.  872.   130.   0.  102.7  33.8  73.4   0.0 -1  0  0  0  0  0  0   0.089  3  0  5  18
244  3 15   15.8 1433.  1320.  13.-1099. 1431.  1322.   0.   29.2  13.1  29.2   0.0 -1  0  0  0  0  0  0   1.136  4  0  7   0
245 14 11   68.5  246.  1836.  20.  -679.  245.  1836.  19.    3.7  19.5   3.7   0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
246  3 14   29.9  594.    73.  15.   386.  697.   102.   0.   83.0  15.3  82.9   0.0 -1  4  0  0  0  0  0  13.083  3  0  3   0
247  1  6  612.4 2171.   333.  39.  -870. 2158.   348.   0.   57.5  38.6  57.5   0.0 -1  0  0  0  0  0  0   0.568  5  0 13   0
248  3 15   18.2  459.  1519.  19.  -589.  459.  1519.   0.   34.9  19.2  34.9   0.0 -1  0  0  0  0  0  0   0.246  4  0 14   0
249 12 18    2.9  529.  2034.   9.-1016.  529.  2034.   9.    6.4   8.8   6.4   0.0  0 -1  0  0  0  0  0   0.0    5  0 14   0
250  3 14   26.2 1532.  1809.  14.-1528. 1532.  1809.  13.    6.7  13.5   6.7   0.0  0 -1  0  0  0  0  0   0.0    4  0  7   0
251  3 14   52.8 1141.    38.  23.    43. 1144.   100.  18.  116.1  23.2 116.1  34.0140 26  0  0  0  0  0   0.876  4  0  5  19
251  3 14   52.8 1141.    38.  23.    43. 1150.    95.   0.  116.1  23.2  78.1   0.0 -1 26  0  0  0  0  0   0.876  4  0  5  19
252  8  7    4.0  580.   255.   7.   262.  581.   255.   0.   20.3   6.7  20.3   0.0 -1  0  0  0  0  0  0   0.783  4  0  1   0
253  3 14   63.0  313.  1058.  21.  -151.  187.   928.   0.  115.0  23.3 112.3   0.0 -1  0  0  0  0  0  0   5.641  3  0  8   0
254  1  6  415.0  701.  1240.   9.  -547.  700.  1242.   0.   28.0   9.2  28.0   0.0 -1  0  0  0  0  0  0   0.090  5  0  8   0
255 26  8   41.9  989.  -250.  12.   359.  989.  -250.  12.    3.9  12.3   3.9   0.0  0 -1  0  0  0  0  0   0.0    4  0  5   0
256  3 14   72.5 1632.    41.  15.  -291. 1356.    23.   0.  156.7  21.0 155.4   0.0 -1  0  0  0  0  0  0  10.681  3  0  6   0
257  3 14   36.3  265.   380.  19.   382.  367.   439.   0.   89.3  21.3  88.6   0.0 -1  0  0  0  0  0  0   8.676  3  0  1   0
258  1  6  401.9  859.  -101.  16.   336.  875.   -92.   0.   44.9  15.6  44.9   0.0 -1  0  0  0  0  0  0   0.557  4  0  5   0
259  3 15   30.8  539.  1268.  13.  -458.  539.  1268.  13.    4.1  13.3   4.1   0.0  0 -1  0  0  0  0  0   0.0    5  0  8   0
260  3 14   50.5 2676.-1145.  31.  -120. 2674.-1142.   0.   47.3  30.4  47.3   0.0 -1  0  0  0  0  0  0   2.659  4  0 13   0
261  3 15   19.8 1138.  1149.  15.  -774. 1138.  1149.  15.    2.9  15.2   2.9   0.0  0 -1  0  0  0  0  0   0.0    4  0  8   0
262 14 12   10.2  856.  1000.  17.  -474.  856.  1000.  17.    3.6  16.5   3.6   0.0  0 -1  0  0  0  0  0   0.0    4  0  8   0
263  3 14   70.9 2524.  1861.  35.-2236. 2487.  1906.   0.   58.8  34.5  58.8   0.0 -1  0  0  0  0  0  0   0.878  4  0 13   0
264  1  6  322.5  951.   -62.  13.   246.  959.   -43.   0.   34.5  12.8  34.5   0.0 -1  0  0  0  0  0  0   0.127  4  0  5   0
265 14 13   27.8  273.  1460.  11.  -421.  273.  1460.  11.    3.6  11.1   3.6   0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
266  1  6  533.3  860.   182.  13.   126.  866.   185.   0.   27.1  12.7  27.1   0.0 -1  0  0  0  0  0  0   0.127  4  0  5   0
267  3 15   32.3  510.   963.  24.  -213.  503.   954.   0.   43.5  23.8  43.5   0.0 -1  0  0  0  0  0  0   0.431  5  0  8   0
268 14 13   42.7  894.   196.  23.    94.  895.   198.   4.   34.6  22.8  34.6   0.0139 26  0  0  0  0  0   0.426  4  0  5  20
268 14 13   42.7  894.   196.  23.    94.  895.   199.   0.   37.9  22.8  37.9   0.0 -1 26  0  0  0  0  0   0.426  4  0  5  20
269 25  1    3.3  994.  1404.  13.  -866.  994.  1404.  13.    3.3  12.9   3.3   0.0  0 -1  0  0  0  0  0   0.0    4  0  8   0
270  3 14   74.9   93.   741.  40.   232.  327.   954.   0.  177.3  44.9 177.3   0.0 -1  0  0  0  0  0  0   2.292  3  0 10   0
271  3 10   48.0  587.  1524.  20.  -679.  580.  1520.   0.   38.6  20.0  38.6   0.0 -1  0  0  0  0  0  0   0.181  5  0 14   0
272 25  1    2.2  726.   123.   6.   261.  727.   121.   0.   20.3   5.7  20.3   0.0 -1  4  0  0  0  0  0   2.773  4  0  5   0
273  3 14   33.8 1211.   103.  11.   -52. 1219.   125.  14.   55.9  13.7  55.9  23.1146 27  0  0  0  0  0   1.430  3  0  5  21
273  3 14   33.8 1211.   103.  11.   -52. 1221.   125.  14.   55.9  14.2  44.4   9.0146 27  0  0  0  0  0   1.430  3  0  5  22
274  3 16   16.5 2605.   850.  36.-1544. 2599.   854.   0.   47.1  36.3  47.1   0.0 -1  0  0  0  0  0  0   0.012  4  0 13   0
275  8  7    4.0  559.   280.  14.   258.  560.   280.   0.   29.1  13.6  29.1   0.0 -1  5  0  0  0  0  0   0.493  4  0  1   0
276 14 11   71.9  587.   713.  22.   -81.  579.   751.   0.   60.9  22.3  60.9   0.0 -1  0  0  0  0  0  0   2.621  4  0  2   0
277  3 15   21.2  329.   390.  12.   332.  332.   389.   0.   27.2  11.4  27.2   0.0 -1  0  0  0  0  0  0   0.863  4  0  1   0
278 14 11   22.8 2467.  1081.  40.-1621. 2463.  1079.   0.   47.7  39.8  47.7   0.0 -1  0  0  0  0  0  0   0.683  4  0 13   0
279  3 14   44.4 1069.  1747.  11.-1169. 1047.  1765.   0.   47.2  11.4  47.2   0.0 -1  0  0  0  0  0  0   1.098  4  0 14   0
280  3 10   48.0 2658.-1700.  41.   303. 2691.-1693.   0.   58.2  40.4  58.2   0.0 -1  0  0  0  0  0  0   0.019  4  0 13   0
281  3 14   52.2 1007.   -66.  19.   211. 1078.   100.  26.  133.0  30.4 133.0  83.4140 26  0  0  0  0  0   0.995  3  0  5  23
281  3 14   52.2 1007.   -66.  19.   211. 1146.    71.   0.  133.0  30.4 110.3   0.0 -1 26  0  0  0  0  0   0.995  3  0  5  23
282  3 14   36.7 2263.   148.  33.  -795. 2151.   185.   0.   95.4  32.8  95.4   0.0 -1  0  0  0  0  0  0   0.476  3  0 13   0
283  3 14   79.0 1919.   600.  23.  -896. 1872.   602.   0.   66.6  22.5  66.6   0.0 -1  0  0  0  0  0  0   1.590  5  0  6   0
284  3 14   44.5  209.   400.  11.   405.  213.   426.   0.   51.5  10.6  51.5   0.0 -1  0  0  0  0  0  0   2.516  4  0  1   0
285  2  4   42.3 -194.   510.  31.   595. -191.   517.   0.   44.1  30.9  44.1   0.0 -1  0  0  0  0  0  0   1.790  4  0 10   0
286  3 15   26.2  939.   298.  11.   -12.  938.   294.   0.   26.3  10.9  26.3   0.0 -1 24  0  0  0  0  0   0.887  4  0  1   0
287  3 14   61.8  364.   366.  17.   326.  384.   340.   0.   59.7  16.5  59.3   0.0 -1  0  0  0  0  0  0   9.576  5  0  1   0
288  1  6  221.7 2613.  -896.  35.  -261. 2523.  -824.   0.   98.3  35.8  98.3   0.0 -1  0  0  0  0  0  0   0.130  3  0 13   0
289  3 14   65.4 1822.  2034.  22.-1889. 1822.  2034.  22.    2.9  22.4   2.9   0.0  0 -1  0  0  0  0  0   0.0    4  0  7   0
290 14 11   69.7  760.  1521.  23.  -794.  748.  1519.   0.   39.6  23.1  39.6   0.0 -1  0  0  0  0  0  0   0.054  4  0 14   0
291 26  8   42.2  898.  -327.   6.   476.  900.  -325.   0.   20.6   5.9  20.6   0.0 -1  0  0  0  0  0  0  29.032  4  0  5   0
```

```
292        57.3 1718. 1579.   8.-1483. 1705. 1585.   0.  39.1   8.2  3●   ●0.0 -1  0  0  0  0  0  0   2.651  4  0  7    0
293  2●     3.6 1772. -459.  29.  -16. 1776. -401.   0.  61.6  29.3  6●   ●0.0 -1  0  0  0  0  0  0   0.417  4  0 12    0
294  3 14  44.0 1066. 1198.  22. -762. 1065. 1200.  22.  14.9  22.2  14.9  0.0  0 -1  0  0  0  0  0  0   0.0    3  0  8    0
295 14 11  62.5  398. 1735.  18. -707.  399. 1739.   0.  32.9  18.3  32.9  0.0 -1  0  0  0  0  0  0  0   0.638  4  0 14    0
296 14 12  75.2  963. 1138.  16. -648.  959. 1135.   0.  33.5  15.7  33.5  0.0 -1  0  0  0  0  0  0  0   0.329  5  0  8    0
297  1  6 362.6  771. 1127.  10. -510.  771. 1127.  10.   4.8   9.6   4.8  0.0  0 -1  0  0  0  0  0  0   0.0    5  0  8    0
298  3 14  68.4  265.  388.  23.  376.  400.  440.   2. 115.1  23.9 115.1 25.9 46 10  *  *  *  *  *      7.767  3  0  1   24
298  3 14  68.4  343.  404.  17.  376.  394.  431.   0. 105.1  15.6 105.1  0.0 -1 10  0  0  0  0  0  0   0.777  3  0  1   24
298  3 14  68.4  343.  404.  17.  376.  400.  438.   1. 118.0  15.7 118.0 27.4 46 10  0  0  0  0  0  0   0.777  3  0  1   24
298  3 14  68.4  343.  404.  17.  376.  400.  439.   3.  99.8  15.8  99.8 61.1 46 10  0  0  0  0  0  0   0.777  3  0  1   24
298  3 14  68.4  343.  404.  17.  376.  400.  435.   5. 116.4  15.8 116.4 61.1 46 10  0  0  0  0  0  0   0.777  3  0  1   24
298  3 14  68.4  343.  404.  17.  376.  399.  431.   0. 102.0  15.7 102.0  0.0 -1 10  0  0  0  0  0  0   0.777  3  0  1   24
298  3 14  68.4  343.  404.  17.  376.  400.  439.   3. 116.9  15.7 116.9 19.5 46 10  0  0  0  0  0  0   0.777  3  0  1   24
298  3 14  68.4  343.  404.  17.  376.  400.  436.   6. 106.1  15.8 106.1 20.6 46 10  0  0  0  0  0  0   0.777  3  0  1   24
298  3 14  68.4  343.  404.  17.  376.  400.  432.   2.  98.8  15.8  98.8 72.9 46 10  0  0  0  0  0  0   0.777  3  0  1   24
298  3 14  68.4  343.  404.  17.  376.  400.  441.   3. 113.0  15.7 113.0 94.8 46 10  0  0  0  0  0  0   0.777  3  0  1   24
298  3 14  68.4  343.  404.  17.  376.  400.  434.   4. 116.2  15.8 116.2 82.3 46 10  0  0  0  0  0  0   0.777  3  0  1   24
298  3 14  68.4  343.  404.  17.  376.  398.  443.   0. 116.2  15.8  87.7  0.0 -1 10  0  0  0  0  0  0   0.777  3  0  1   24
299  3 14  49.6 1415.  733.  18. -655. 1313.  771.   0.  91.4  19.2  91.4  0.0 -1  0  0  0  0  0  0  0   1.857  3  0  6    0
300  3 16   7.9 1297. -323.   9.  205. 1297. -323.   9.   3.3   8.6   3.3  0.0  0 -1  0  0  0  0  0  0   0.0    4  0  6    0
301  3 14  32.2 -684. 1352.  41.  306. -366. 1755.   0. 156.3  48.5 149.0  0.0 -1  0  0  0  0  0  0  0   2.483  3  0  9    0
302 14 12  48.9  403. 1744.  16. -717.  399. 1740.   0.  32.6  15.8  32.6  0.0 -1  0  0  0  0  0  0  0   0.136  5  0 14    0
303  2  4  19.0 1265. 1655.   8.-1233. 1263. 1656.   0.  22.4   7.5  22.4  0.0 -1  0  0  0  0  0  0  0   7.768  4  0  7    0
304  3 14  64.8  698. 1767.  14. -934.  655. 1776.   0.  45.0  14.2  45.0  0.0 -1  0  0  0  0  0  0  0   4.838  3  0 14    0
305 26  8  36.7 2334.  775.  26.-1306. 2325.  780.   0.  41.8  25.9  41.8  0.0 -1  0  0  0  0  0  0  0   8.392  4  0 13    0
306 25  1   2.0 1607. -676.  34.  256. 1625. -647.   0.  58.5  34.1  58.5  0.0 -1  0  0  0  0  0  0  0   1.558  4  0 12    0
307  3 15  10.0 1785. 1944.  10.-1798. 1785. 1944.   9.   3.2   9.4   3.2  0.0  0 -1  0  0  0  0  0  0   0.0    4  0  7    0
308  3 15  22.3 1840. 1808.  16.-1735. 1840. 1808.  16.   3.1  16.1   3.1  0.0  0 -1  0  0  0  0  0  0   0.0    4  0  7    0
309  3 14  37.5  986.   32.  24.  153. 1014.  -75.   0.  77.4  24.3  76.3  0.0 -1  0  0  0  0  0  0  0   4.243  3  0  5    0
310 14 12  32.9 2243.  875.  30.-1318. 2239.  882.   0.  43.4  29.7  43.4  0.0 -1  0  0  0  0  0  0  0   0.424  4  0 13    0
311  3 14  22.9  488.   98.  14.  440.  527.   99.   0.  60.4  14.1  60.4  0.0 -1  0  0  0  0  0  0  0   2.736  4  0  3    0
312 25  1   2.3  716. -141.   8.  463.  717. -143.   0.  22.3   7.8  22.3  0.0 -1  0  0  0  0  0  0  0   2.319  4  0  5    0
313 26  8  33.8  557.  -31.  15.  489.  562.  -28.   0.  32.0  14.6  32.0  0.0 -1  0  0  0  0  0  0  0  34.260  4  0  4    0
314 26  8  42.5  489.  -56.  12.  553.  492.  -53.   0.  28.4  11.9  28.4  0.0 -1  0  0  0  0  0  0  0   7.959  4  0  4    0
315  3 14  46.6  560.  132.  14.  366.  575.  118.   0.  41.3  14.0  41.3  0.0 -1  0  0  0  0  0  0  0  13.724  4  0  3    0
316  8  7   4.0  565.  217.  14.  300.  566.  218.   0.  29.8  14.3  29.8  0.0 -1  0  0  0  0  0  0  0   0.477  4  0  1    0
317  3 14  59.9 1178. -161.  11.  165. 1209. -100.   0.  95.7  11.1  95.4  0.0 -1  0  0  0  0  0  0  0   1.417  4  0  5    0
318 25  1   1.6  103.  899.  26.  109.  105.  901.  23.  17.8  25.9  17.8  0.0  0 -1  0  0  0  0  0  0   0.0    4  0 10    0
319  8  7   4.0 1101.  383.  11. -184. 1101.  382.   0.  26.3  10.9  26.3  0.0 -1 18  0  0  0  0  0  0   2.886  4  0  1    0
320 26  9  33.1  626. -235.  12.  592.  631. -229.   0.  30.8  11.8  30.8  0.0 -1  0  0  0  0  0  0  0   2.003  4  0  4    0
321 26  9  41.5  641.  -32.  12.  432.  652.  -26.   0.  36.1  12.0  36.1  0.0 -1  0  0  0  0  0  0  0   0.397  4  0  4    0
322  3 17   8.0 2276. -488.  44. -335. 2261. -494.   0.  52.5  43.9  52.5  0.0 -1  0  0  0  0  0  0  0   0.018  4  0 13    0
323  3 14  65.4  300.  197.  13.  494.  327.  203.   0.  52.3  12.4  52.2  0.0 -1 26  0  0  0  0  0  0  14.771  4  0  3    0
324  8  7   4.0  946.  261.  14.   11.  947.  261.   0.  28.9  13.4  28.9  0.0 -1  0  0  0  0  0  0  0   0.500  4  0  1    0
325  3 14  25.7  679.  282.  19.  175.  685.  315.  22.  76.1  22.4  76.1  0.1 34  8  *  *  *  *  *     1.734  3  0  1   25
325  3 14  25.7  680.  294.  22.  175.  685.  313.  22.  73.4  22.5  73.4  9.0 34  8  0  0  0  0  0       0.173  3  0  1   25
325  3 14  25.7  680.  294.  22.  175.  685.  310.  22.  68.6  22.3  68.6 30.6 34  8  0  0  0  0  0       0.173  3  0  1   25
325  3 14  25.7  680.  294.  22.  175.  685.  321.  20.  82.7  22.3  82.7  0.1 34  8  0  0  0  0  0       0.173  3  0  1   25
325  3 14  25.7  680.  294.  22.  175.  685.  315.  22.  32.4  22.9  32.4  0.5 34  8  0  0  0  0  0       0.173  3  0  1   25
325  3 14  25.7  680.  294.  22.  175.  685.  320.   8.  49.4  22.3  49.4 16.2 34  8  0  0  0  0  0       0.173  3  0  1   25
325  3 14  25.7  680.  294.  22.  175.  685.  308.  21.  64.7  22.3  64.7 30.6 34  8  0  0  0  0  0       0.173  3  0  1   25
325  3 14  25.7  680.  294.  22.  175.  685.  317.  21.  79.5  22.4  79.5  0.6 34  8  0  0  0  0  0       0.173  3  0  1   25
325  3 14  25.7  680.  294.  22.  175.  685.  321.  21.  84.4  22.3  84.4 31.3 34  8  0  0  0  0  0       0.173  3  0  1   25
325  3 14  25.7  680.  294.  22.  175.  685.  311.  26.  62.6  25.8  62.6  8.6 34  8  0  0  0  0  0       0.173  3  0  1   25
325  3 14  25.7  680.  294.  22.  175.  685.  311.  20.  71.8  22.2  71.8 11.0 34  8  0  0  0  0  0       0.173  3  0  1   25
325  3 14  25.7  680.  294.  22.  175.  683.  334.  16.  94.1  22.2  94.1 29.9 29  7  0  0  0  0  0       0.173  3  0  1   25
326 25  1   3.9 1851. -665.  28.   83. 1851. -665.  28.   3.3  27.7   3.3  0.0  0 -1  0  0  0  0  0  0   0.0    4  0 12    0
327 14 11  50.4 2483. -772.  38. -265. 2472. -726.   0.  66.5  37.6  66.5  0.0 -1  0  0  0  0  0  0  0   0.741  4  0 13    0
328 14 11  56.9 2672.  663.  32.-1451. 2665.  675.   0.  43.1  32.2  43.1  0.0 -1  0  0  0  0  0  0  0   0.187  4  0 13    0
329 26  8  46.9 1420. -634.  33.  351. 1448. -629.   0.  54.2  32.9  54.2  0.0 -1  0  0  0  0  0  0  0  15.398  4  0 12    0
330  3 14  49.0 1962.  195.  24. -627. 1857.  242.   0.  99.2  23.5  99.2  0.0 -1  0  0  0  0  0  0  0   7.747  3  0  6    0
331  3 14  66.0 1058.  840.  15. -492.  998.  896.   0.  94.8  15.1  94.8  0.0 -1  0  0  0  0  0  0  0   1.430  3  0  8    0
332  1  6 669.3  779. -161.  11.  435.  782. -164.   0.  27.1  11.0  27.1  0.0 -1  0  0  0  0  0  0  0   0.137  4  0  5    0
333  3 14  55.9  379.  306.  13.  360.  391.  323.   0.  61.2  13.1  61.2  0.0 -1  0  0  0  0  0  0  0  11.052  5  0  1    0
334  1  6 371.0  907. -201.  16.  378.  906. -191.   0.  33.8  15.4  33.8  0.0 -1  0  0  0  0  0  0  0   0.112  4  0  5    0
335 26  8  45.0  941. 1493.  13. -895.  936. 1495.   0.  30.6  13.0  30.6  0.0 -1  0  0  0  0  0  0  0  10.092  4  0 14    0
336  3 14  35.5 1056. -243.   9.  308. 1062. -222.   0.  61.0   9.2  61.0  0.0 -1  0  0  0  0  0  0  0   1.551  5  0  5    0
337  3 14  37.7 -208.  921.  43.  302. -144.  818.   0.  90.3  42.9  90.3  0.0 -1  0  0  0  0  0  0  0   5.085  4  0 10    0
338  3 15  30.6  666. 1521.  21. -730.  663. 1522.   0.  37.0  20.5  37.0  0.0 -1  0  0  0  0  0  0  0   0.094  5  0 14    0
339 25  1   3.7  489.  210.  11.  357.  492.  206.   0.  28.0  11.2  28.0  0.0 -1  0  0  0  0  0  0  0   1.834  4  0  1    0
340  3 14  68.3  771.  119.  24.  233.  788.  130.  23.  69.1  24.0  69.1 41.5 11  4  0  0  0  0  0       4.264  4  0  5   26
340  3 14  68.3  771.  119.  24.  233.  806.  130.  21.  69.1  24.0  65.4 13.5 11  4  0  0  0  0  0       4.264  4  0  5   27
341  3 14  73.0 2688. -374.  33. -696. 2585. -324.   0.  99.7  37.5  99.7  0.0 -1  0  0  0  0  0  0  0   0.483  3  0 13    0
342 14 11  76.0 2347.  -28.  34. -722. 2326.  -26.   0.  50.1  34.0  50.1  0.0 -1  0  0  0  0  0  0  0   0.172  4  0 13    0
```

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343  1  6  61.0 1239. 1161.  21. -852. 1225. 1167.  0.  42.3  21.1  42.3  0.0 -1  0  0  0  0  0  0  0.027  4  0  8   0
344  2  4  29.4  555.  206.  11.  315.  558.  204.  0.  27.0  10.9  27.0  0.0 -1  0  0  0  0  0  0  2.893  4  0  1   0
345 26  9  40.5 1813. -963.  32.  328. 1814. -963. 32.   6.5  32.1   6.5  0.0  0 -1  0  0  0  0  0  0.0    4  0 12   0
346  3 14  71.2 1372. -209.  23.   70. 1466.  -29.  0. 164.6  25.0 164.6  0.0 -1  0  0  0  0  0  0  1.552  3  0  6   0
347  3 16   7.4 1748.  588.  17. -772. 1743.  590.  0.  33.3  16.7  33.3  0.0 -1  0  0  0  0  0  0  0.742  4  0  6   0
348 14 13  59.5  528. 1710.  13. -777.  528. 1710. 13.   3.2  12.8   3.2  0.0  0 -1  0  0  0  0  0  0.0    4  0 14   0
349  1  6 843.0 1164.   41.  14.   25. 1173.   68.  0.  51.0  13.4  51.0  0.0 -1  0  0  0  0  0  0  0.123  4  0  5   0
350  3 14  28.5  576.  278.  14.  247.  578.  280. 14.  24.9  14.1  24.9  8.8 17  5  0  0  0  0  0  2.189  3  0  1  28
350  3 14  28.5  576.  278.  14.  247.  585.  280. 13.  36.8  14.2  36.8  9.7 17  5  0  0  0  0  0  2.189  3  0  1  29
351 25  1   2.2 1993. 1929.  14.-1927. 1989. 1932.  0.  31.3  13.7  31.3  0.0 -1  0  0  0  0  0  0  1.590  5  0  7   0
352  3 15  22.7  241. 1705.  21. -580.  241. 1705. 20.   7.7  20.5   7.7  0.0  0 -1  0  0  0  0  0  0.0    5  0 14   0
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354  3 14  30.7 1247.  201.  13. -149. 1229.  185.  7.  65.8  12.7  65.8 33.4148 27  0  0  0  0  0  0  2.266  4  0  1  30
354  3 14  30.7 1247.  201.  13. -149. 1213.  188.  0.  65.8  12.7  56.5  0.0 -1 27  0  0  0  0  0  2.266  4  0  1  30
355  3 14  40.6  354.   82.  25.  542.  356.  123.  0.  58.8  24.7  58.8  0.0 -1  0  0  0  0  0  0  1.861  4  0  3   0
356  1  6 173.1  837.   21.  13.  261.  845.   14.  0.  34.7  12.7  34.7  0.0 -1  0  0  0  0  0  0  0.127  4  0  5   0
357  3 14  23.5 1658. 1854.  12.-1645. 1646. 1849.  0.  31.0  11.5  31.0  0.0 -1  0  0  0  0  0  0 11.102  4  0  7   0
358 26  9  41.3  583. 1904.   9. -957.  576. 1907.  0.  29.8   8.6  29.8  0.0 -1  0  0  0  0  0  0  2.656  4  0 14   0
359  3 14  59.7  208. 1405.  19. -335.  154. 1354.  0. 101.1  18.8 101.1  0.0 -1  0  0  0  0  0  0  1.227  4  0  8   0
360 25  1   3.8  719.  120.   8.  268.  725.  121.  0.  26.2   8.2  26.2  0.0 -1  4  0  0  0  0  0  0.449  4  0  5   0
361  1  6 481.1 1073. 1648.  11.-1099. 1067. 1650.  0.  28.6  10.4  28.6  0.0 -1  0  0  0  0  0  0  0.198  4  0 14   0
362  8  7   4.0 1133.  385.   9. -208. 1132.  386.  0.  23.8   9.0  23.8  0.0 -1 13  0  0  0  0  0  0.654  4  0  1   0
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399  3 14  44.5  941.  286.  21.   31.  934.  334. 16. 124.6  20.6 124.6 35.1125 23  0  0  0  0  0  0.156  3  0  1  31
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441 14 13  59.7  917. -310. 16.  451.  917. -306.  0.  32.2  15.5 32.2  0.0 -1  0  0  0  0  0  0  2.781  5  0  5   0
442 26  8  40.6  601. -190. 13.  576.  604. -187.  0.  29.6  13.1 29.6  0.0 -1  0  0  0  0  0  0  7.437  4  0  4   0
443  1  6 947.2  982. -297. 22.  398.  987. -306.  0.  37.9  21.7 37.9  0.0 -1  0  0  0  0  0  0  0.178  4  0  5   0
444 25  1   1.4 1115. 1398. 10. -943. 1112. 1398.  0.  26.5  10.3 26.5  0.0 -1  0  0  0  0  0  0  0.388  4  0  8   0
445  3 14  56.6 1018.   37.  9.  127. 1054.  100. 15.  85.9  15.4 85.9 66.7140 26  0  0  0  0  0  1.625  3  0  5  36
445  3 14  56.6 1018.   37.  9.  127. 1070.  100. 11.  85.9  15.4 63.1  8.6140 26  0  0  0  0  0  1.625  3  0  5  37
446  3 16   7.3 1777.  231. 15. -528. 1775.  229.  0.  31.1  15.3 31.1  0.0 -1  0  0  0  0  0  0  0.786  4  0  6   0
447  3 14  62.2 1042.  890. 14. -519. 1041.  891. 13.  13.8  13.5 13.8  0.0  0 -1  0  0  0  0  0  0.0    4  0  8   0
448  3 15  38.6 2714.-1574. 36.  172. 2725.-1561.  0.  47.5  35.5 47.5  0.0 -1  0  0  0  0  0  0  0.966  4  0 13   0
449  3 14  30.2  355.  201.  9.  454.  372.  197.  0.  41.1   8.9 41.1  0.0 -1  0  0  0  0  0  0  2.766  4  0  1   0
450 25  1   1.6  332.  793. 13.   33.  328.  785.  0.  31.2  12.8 31.2  0.0 -1  0  0  0  0  0  0  0.335  4  0  8   0
451  3 14  39.4 1140. 1257. 25. -855. 1099. 1267.  0.  71.8  24.3 71.8  0.0 -1  0  0  0  0  0  0  5.086  5  0  8   0
452 12 18   1.6  238. 1690. 10. -566.  231. 1699.  0.  48.6   9.8 48.6  0.0 -1  0  0  0  0  0  0  0.234  5  0 14   0
453 26  8  41.5  449.  -76. 15.  595.  452.  -72.  0.  30.9  14.4 30.9  0.0 -1  0  0  0  0  0  0 34.733  4  0  4   0
454  3 14  68.8  871.  -83.  9.  315.  883.  -96.  0.  44.3   8.4 44.3  0.0 -1  0  0  0  0  0  0  1.637  4  0  5   0
455  3 15  22.2 1068. 1471.  9. -964. 1066. 1472.  0.  23.6   8.5 23.6  0.0 -1  0  0  0  0  0  0  0.160  4  0 14   0
456  3 16  12.6 1857.  301. 22. -634. 1850.  300.  0.  38.1  22.0 38.1  0.0 -1  0  0  0  0  0  0  0.613  4  0  6   0
457 12 18   1.7  751. 1559.  8. -815.  737. 1555.  0.  39.2   7.8 39.2  0.0 -1  0  0  0  0  0  0  0.027  4  0 14   0
458 25  1   2.9 1203.  -55.  8.   71. 1200.  -43.  0.  35.3   8.0 35.3  0.0 -1  0  0  0  0  0  0  2.287  4  0  5   0
459 12 18   2.8  263.  734. 11.  122.  255.  819.  0.  92.3  10.9 92.3  0.0 -1  0  0  0  0  0  0  4.349  3  0  2   0
460 25  1   1.8  572. 1320. 12. -519.  567. 1322.  0.  28.5  11.3 28.5  0.0 -1  0  0  0  0  0  0  0.727  4  0  8   0
461  3 15  23.0  830.  919. 16. -397.  820.  924.  0.  36.5  16.2 36.5  0.0 -1  0  0  0  0  0  0  2.823  4  0  8   0
462  3 15  37.6 1691. 1233. 12.-1209. 1688. 1234.  0.  27.3  11.6 27.3  0.0 -1  0  0  0  0  0  0  3.060  4  0  7   0
463  3 14  40.7 1625. 1158. 10.-1109. 1604. 1172.  0.  46.6   9.7 46.6  0.0 -1  0  0  0  0  0  0  2.432  4  0  7   0
```

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464  [●]    33.6 1113.  611.  22. -360. 1100.  620.   0.  43.4  22.1  43[●] 0.0 -1  0  0  0  0  0  0   4.905  4  0  2    0
465  3 15   17.7 1062. 1700.  19.-1129. 1061. 1701.   0.  35.0  18.9  35.0  0.0 -1  0  0  0  0  0  0   0.497  5  0 14    0
466  3 16   12.0 1992. -272.  22. -302. 1984. -264.   0.  43.7  22.2  43.7  0.0 -1  0  0  0  0  0  0   3.045  5  0  6    0
467 14 11   54.9 2396. -335.  32. -528. 2396. -318.   0.  44.8  31.8  44.8  0.0 -1  0  0  0  0  0  0   0.190  4  0 13    0
468  3 14   52.6  262.   90.  20.  599.  289.   85.   0.  45.7  20.3  45.7  0.0 -1  0  0  0  0  0  0   2.143  4  0  3    0
469  3 14   55.4  902. 1202.  14. -654.  901. 1202.  13.   9.0  13.4   9.0  0.0  0 -1  0  0  0  0  0   0.0    5  0  8    0
470  3 15   38.8  978. 1236.  11. -731.  976. 1238.   0.  25.6  10.5  25.6  0.0 -1  0  0  0  0  0  0   1.471  4  0  8    0
471  3 14   63.5  715. 1685.  13. -885.  715. 1685.  13.   7.2  13.1   7.2  0.0  0 -1  0  0  0  0  0   0.0    5  0 14    0
472  8  7    4.0  752.  261.  14.  142.  752.  262.   0.  29.4  14.1  29.4  0.0 -1  0  0  0  0  0  0   0.481  4  0  1    0
473 14 13   38.6  819. -108.  18.  368.  826. -110.   0.  34.6  17.8  34.6  0.0 -1  0  0  0  0  0  0   0.508  4  0  5    0
474  3 15   24.1  250.  907.  25.    4.  252.  913.   0.  40.8  24.6  40.8  0.0 -1  0  0  0  0  0  0   4.218  4  0  8    0
475  3 14   56.9   59.  554.  31.  393.  129.  626.   0. 100.3  30.6  99.5  0.0 -1  0  0  0  0  0  0   1.674  4  0 10    0
476  3 15   34.6 2572.-1223.  30.    8. 2574.-1203.   0.  49.7  29.4  49.7  0.0 -1  0  0  0  0  0  0   0.130  4  0 13    0
477  3 14   54.8 1387. -303.  17.  129. 1425. -152.   0. 131.0  16.8 131.0  0.0 -1  0  0  0  0  0  0   1.970  3  0  6    0
478  3 14   77.1  803. 1913.  24.-1112.  802. 1914.  24.   8.0  23.6   8.0  0.0  0 -1  0  0  0  0  0   0.0    4  0 14    0
479  3 15   13.4  749.  246.  15.  155.  752.  256.   0.  33.6  15.3  33.6  0.0 -1  0  0  0  0  0  0   0.144  4  0  1    0
480  3 15   11.5 2412. -783.  38. -209. 2389. -793.   0.  57.1  38.3  57.1  0.0 -1  0  0  0  0  0  0   0.086  4  0 13    0
481 25  1    3.9  905.  211.  11.   75.  906.  203.   0.  27.5  10.5  27.5  0.0 -1 26  0  0  0  0  0   1.919  4  0  1    0
482  3 15   36.5  722.  709.  24. -170.  715.  696.   0.  42.4  23.8  42.4  0.0 -1 17  0  0  0  0  0   4.648  4  0  2    0
483 26  9   30.6 1827.-1113.  29.  429. 1856.-1098.   0.  55.7  28.6  55.7  0.0 -1  0  0  0  0  0  0   0.506  4  0 12    0
484  3 14   44.7  659.  910.  17. -275.  631.  969.   0. 109.9  16.8 109.9  0.0 -1  0  0  0  0  0  0  13.185  5  0  8    0
485  2  4   23.9  487.  748.  13.  -39.  487.  755.   0.  34.0  13.1  34.0  0.0 -1  0  0  0  0  0  0   0.530  5  0  2    0
486  3 16   17.3 2663. -193.  37. -814. 2656. -195.   0.  46.8  36.4  46.8  0.0 -1  0  0  0  0  0  0   0.012  4  0 13    0
487 25  1    1.9  352.  231.   9.  434.  354.  229.   0.  24.1   8.6  24.1  0.0 -1  0  0  0  0  0  0   0.437  4  0  1    0
488  3 15   14.0  576.  218.  21.  292.  583.  214.   0.  38.2  21.3  38.2  0.0 -1  0  0  0  0  0  0   0.115  4  0  1    0
489  3 14   52.4  203. 1084.   9.  -96.  191. 1038.   0.  62.3  10.0  62.3  0.0 -1  0  0  0  0  0  0   9.668  3  0  8    0
490  3 14   24.8  681. -207.  12.  535.  701. -187.   0.  46.4  11.9  46.4  0.0 -1  0  0  0  0  0  0   1.356  4  0  5    0
491  3 14   46.7  599.  253.  24.  250.  673.  334.  32. 114.6  34.9 114.6 37.0 29  7  *  *  *  *  *   1.487  3  0  1   38
491  3 14   46.7  627.  284.  32.  250.  675.  334.  35. 119.9  35.5 119.9 52.7 29  7  0  0  0  0  0   0.149  3  0  1   38
491  3 14   46.7  627.  284.  32.  250.  676.  334.  35. 119.3  35.2 119.3  8.8 29  7  0  0  0  0  0   0.149  3  0  1   38
491  3 14   46.7  627.  284.  32.  250.  668.  334.  32.  84.6  34.7  84.6 61.0 29  7  0  0  0  0  0   0.149  3  0  1   38
491  3 14   46.7  627.  284.  32.  250.  679.  334.  32. 114.9  34.4 114.9  6.1 29  7  0  0  0  0  0   0.149  3  0  1   38
491  3 14   46.7  627.  284.  32.  250.  673.  334.  39. 115.6  38.6 115.6 29.4 29  7  0  0  0  0  0   0.149  3  0  1   38
491  3 14   46.7  627.  284.  32.  250.  668.  334.  35. 118.7  35.0 118.7 34.3 29  7  0  0  0  0  0   0.149  3  0  1   38
491  3 14   46.7  627.  284.  32.  250.  664.  334.  37.  94.7  36.9  94.7 18.6 29  7  0  0  0  0  0   0.149  3  0  1   38
491  3 14   46.7  627.  284.  32.  250.  669.  334.  38. 116.4  37.6 116.4 39.3 29  7  0  0  0  0  0   0.149  3  0  1   38
491  3 14   46.7  627.  284.  32.  250.  672.  334.  35. 120.1  35.6 120.1 15.0 29  7  0  0  0  0  0   0.149  3  0  1   38
491  3 14   46.7  627.  284.  32.  250.  671.  334.  36. 119.4  36.3 119.4 44.1 29  7  0  0  0  0  0   0.149  3  0  1   38
491  3 14   46.7  627.  284.  32.  250.  685.  333.  36. 119.4  36.5 109.4 28.7 34  8  0  0  0  0  0   0.149  3  0  1   38
492  1  6  670.8 1215. -284.  15.  231. 1224. -267.   0.  48.7  15.2  48.7  0.0 -1  0  0  0  0  0  0   0.113  5  0  5    0
493  3 14   62.7 2323. 1206.  43.-1616. 2271. 1199.   0.  72.0  43.2  72.0  0.0 -1  0  0  0  0  0  0   1.585  5  0 13    0
494 25  1    2.5  812. -147.  14.  402.  820. -143.   0.  32.9  14.3  32.9  0.0 -1  0  0  0  0  0  0   1.540  4  0  5    0
495 14 12   55.5  465. 1592.  23. -647.  465. 1592.  23.   4.1  23.0   4.1  0.0  0 -1  0  0  0  0  0   0.0    5  0 14    0
496 14 11   19.2 2080.-1421.  35.  486. 2097.-1409.   0.  47.6  34.6  47.6  0.0 -1  0  0  0  0  0  0   1.673  4  0 13    0
497 14 13   36.5 1142.   75.  17.   15. 1144.   73.   0.  32.4  17.1  32.4  0.0 -1 26  0  0  0  0  0   2.607  4  0  5    0
498  3 14   20.9  666.   53.  21.  353.  734.   51.   0.  85.9  21.1  85.4  0.0 -1  0  0  0  0  0  0   0.933  4  0  5    0
499 25  1    3.0  578. 1585.   9. -719.  574. 1586.   0.  28.3   9.1  28.3  0.0 -1  0  0  0  0  0  0   0.841  5  0 14    0
500 12 18    2.3  308. 1532.  15. -497.  308. 1532.  15.   9.6  14.7   9.6  0.0  0 -1  0  0  0  0  0   0.0    4  0 14    0
```

SUMMARY FOR TORNADO 7

TARGET	EVENT	P(A|I)	SINGLE MISSILE VAR(P(A|I))	CONFIDENCE BOUNDS		P(A)	MULTIPLE MISSILE P(A|I)**N	P(A)**N
1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	2	0.406153E-01	0.821028E-03	-0.155454E-01	0.967761E-01	0.225014E-01	0.100000E+01	0.554013E+00
1	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TORNADO   8 PARAMETERS AND MISSILE HISTORY RESULTS

I,UMAX,UTRAN,WIDTH,TAU,YPOSET	4 0.268228E+03 0.754963E+02 0.654795E+03 0.757237E+01-0.593312E+03	
TWT,PSTR,TWTP,YPLT,YPRT	0.929408E+00 0.718204E+01 0.667505E+01-0.305203E+03-0.959998E+03	
SLOPE,GAMMA,DELTA,RR,RL,RMAX	0.589024E-01 0.804971E+00 0.496230E+03 0.366686E+03 0.288110E+03 0.261918E+03	

NMIS	SET	SUB SET	LOD	XO	YO	ZO	OFFSET	X1	Y1	Z1	VMAX	ZMAX	VHIT	VE	WAL	TAR	D1	D2	D3	D4	DV	HWT	KEY	SF	IZ	NHT
1	26	8	28.7	747.	-342.	8.	-219.	746.	-331.	0.	37.4	7.6	37.4	0.0	-1	0	0	0	0	0	0	25.169	4	0	5	0
2	26	9	31.4	258.	-339.	15.	251.	276.	-345.	0.	45.5	14.5	45.5	0.0	-1	0	0	0	0	0	0	0.345	4	0	4	0
3	26	9	36.0	384.	-212.	8.	166.	401.	-209.	0.	45.6	7.9	45.6	0.0	-1	0	0	0	0	0	0	0.521	4	0	4	0
4	1	6	719.6	1197.	2030.	17.	8.	1226.	2058.	0.	63.6	17.2	63.6	0.0	-1	0	0	0	0	0	0	0.731	4	0	14	0
5	3	14	70.7	825.	202.	25.	-143.	811.	1409.	0.	199.8	123.4	122.5	0.0	-1	0	0	0	0	0	0	2.899	3	0	1	0
6	3	10	48.0	1014.	1252.	16.	-33.	1013.	1255.	0.	31.3	15.7	31.3	0.0	-1	0	0	0	0	0	0	0.737	4	0	8	0
7	2	4	31.4	755.	1166.	8.	192.	755.	1166.	8.	3.4	7.6	3.4	0.0	0	-1	0	0	0	0	0	0.0	4	0	8	0
8	3	14	76.8	803.	-95.	9.	-205.	719.	37.	0.	123.8	14.8	123.8	0.0	-1	0	0	0	0	0	0	1.627	3	0	5	0
9	14	13	33.9	797.	-95.	21.	-198.	786.	-67.	0.	47.8	21.4	47.8	0.0	-1	0	0	0	0	0	0	2.236	4	0	5	0
10	26	9	48.2	444.	-157.	11.	123.	468.	-146.	0.	58.8	10.8	58.8	0.0	-1	0	0	0	0	0	0	0.425	4	0	4	0
11	1	6	423.1	789.	-261.	17.	-237.	793.	-236.	0.	63.6	16.6	63.6	0.0	-1	0	0	0	0	0	0	0.533	5	0	5	0
12	3	14	24.1	880.	958.	19.	15.	940.	1006.	23.	124.5	22.5	124.5	0.0	0	-1	0	0	0	0	0	0.0	3	0	8	0
13	25	1	2.0	822.	240.	13.	-130.	825.	269.	0.	58.1	12.7	58.1	0.0	-1	0	0	0	0	0	0	1.685	4	0	1	0
14	25	1	3.8	764.	-119.	14.	-174.	762.	-89.	0.	53.9	13.8	53.9	0.0	-1	0	0	0	0	0	0	0.317	4	0	5	0
15	26	9	39.7	367.	11.	9.	244.	381.	7.	0.	39.3	9.2	39.3	0.0	-1	0	0	0	0	0	0	0.474	4	0	4	0
16	1	6	462.4	1007.	44.	11.	-362.	1006.	53.	0.	32.0	10.8	32.0	0.0	-1	0	26	0	0	0	0	0.696	4	0	5	0
17	14	13	37.7	680.	90.	14.	-35.	702.	107.	0.	46.4	13.7	46.4	0.0	-1	4	0	0	0	0	0	0.604	4	0	5	0
18	26	9	32.9	429.	-58.	13.	165.	456.	-52.	0.	59.1	13.1	59.1	0.0	-1	0	0	0	0	0	0	0.373	4	0	4	0
19	26	8	25.3	374.	-131.	9.	198.	381.	-130.	0.	29.7	8.4	29.7	0.0	-1	0	0	0	0	0	0	10.017	4	0	4	0
20	26	9	44.8	265.	-274.	5.	263.	271.	-276.	0.	25.7	5.0	25.7	0.0	-1	0	0	0	0	0	0	0.672	5	0	4	0
21	3	15	20.6	1470.	1645.	14.	-362.	1470.	1645.	14.	3.3	13.9	3.3	0.0	0	-1	0	0	0	0	0	0.0	5	0	7	0
22	12	18	1.1	1146.	1530.	9.	-83.	1090.	1509.	0.	47.6	9.0	47.6	0.0	-1	0	0	0	0	0	0	0.025	3	0	14	0
23	26	8	25.4	319.	-217.	12.	226.	329.	-218.	0.	33.6	12.3	33.6	0.0	-1	0	0	0	0	0	0	38.805	4	0	4	0
24	3	14	37.9	1019.	245.	18.	-317.	1013.	280.	25.	68.8	25.4	68.8	17.7	41	9	0	0	0	0	0	1.809	3	0	1	1
24	3	14	37.9	1019.	245.	18.	-317.	1004.	272.	22.	68.8	25.4	54.5	8.9136	25	0	0	0	0	0	0	1.809	3	0	1	2
25	25	1	3.0	801.	76.	7.	-155.	806.	81.	0.	26.4	6.4	26.4	0.0	-1	0	0	0	0	0	0	0.521	4	0	5	0
26	3	15	29.9	1177.	620.	9.	-366.	1178.	620.	0.	24.4	9.1	24.4	0.0	-1	0	0	0	0	0	0	1.707	5	0	2	0
27	14	13	55.4	1067.	1948.	17.	110.	1074.	1945.	0.	35.1	16.4	35.1	0.0	-1	0	0	0	0	0	0	0.501	4	0	14	0
28	25	1	2.1	564.	266.	9.	126.	574.	275.	0.	34.5	8.8	34.5	0.0	-1	5	0	0	0	0	0	0.432	4	0	1	0
29	3	15	11.5	1061.	1185.	22.	-97.	1073.	1192.	0.	45.6	22.0	45.6	0.0	-1	0	0	0	0	0	0	0.915	5	0	8	0
30	3	15	25.0	1056.	1275.	23.	-67.	1056.	1275.	22.	4.3	22.5	4.3	0.0	0	-1	0	0	0	0	0	0.0	4	0	8	0
31	3	14	47.4	632.	130.	19.	23.	732.	280.	16.	117.3	23.5	117.3	33.6	35	8	*	*	*	*	*	2.288	3	0	3	3
31	3	14	47.4	727.	272.	18.	23.	732.	280.	16.	117.4	16.2	117.4	25.7	35	8	0	0	0	0	0	0.229	3	0	3	3
31	3	14	47.4	727.	272.	18.	23.	732.	280.	16.	118.1	16.4	118.1	33.5	35	8	0	0	0	0	0	0.229	3	0	3	3
31	3	14	47.4	727.	272.	18.	23.	732.	280.	16.	120.7	16.4	120.7	29.3	35	8	0	0	0	0	0	0.229	3	0	3	3
31	3	14	47.4	727.	272.	18.	23.	733.	280.	16.	121.6	16.4	121.6	54.7	35	8	0	0	0	0	0	0.229	3	0	3	3
31	3	14	47.4	727.	272.	18.	23.	733.	280.	16.	121.7	16.3	121.7	31.2	35	8	0	0	0	0	0	0.229	3	0	3	3
31	3	14	47.4	727.	272.	18.	23.	732.	280.	16.	120.1	16.4	120.1	31.2	35	8	0	0	0	0	0	0.229	3	0	3	3
31	3	14	47.4	727.	272.	18.	23.	732.	280.	16.	122.3	16.3	122.3	40.0	35	8	0	0	0	0	0	0.229	3	0	3	3
31	3	14	47.4	727.	272.	18.	23.	732.	280.	16.	122.3	16.4	122.3	77.2	35	8	0	0	0	0	0	0.229	3	0	3	3
31	3	14	47.4	727.	272.	18.	23.	732.	280.	16.	122.3	16.4	122.3	27.9	35	8	0	0	0	0	0	0.229	3	0	3	3
31	3	14	47.4	727.	272.	18.	23.	732.	280.	16.	119.9	16.2	119.9	24.7	35	8	0	0	0	0	0	0.229	3	0	3	3
31	3	14	47.4	727.	272.	18.	23.	790.	277.	0.	119.9	16.2	115.8	0.0	-1	11	0	0	0	0	0	0.229	3	0	3	3
32	26	8	39.6	449.	-89.	9.	137.	458.	-86.	0.	32.6	8.4	32.6	0.0	-1	0	0	0	0	0	0	10.045	4	0	4	0
33	26	8	20.3	1050.	1707.	9.	59.	1059.	1714.	0.	35.6	8.4	35.6	0.0	-1	0	0	0	0	0	0	13.489	4	0	14	0
34	26	8	23.9	576.	-278.	9.	-37.	584.	-267.	0.	40.9	9.3	40.9	0.0	-1	0	0	0	0	0	0	9.389	4	0	4	0
35	1	6	511.1	967.	1866.	22.	184.	967.	1867.	22.	4.4	21.6	4.4	0.0	0	-1	0	0	0	0	0	0.0	5	0	14	0
36	3	14	62.7	1150.	663.	17.	-327.	1138.	786.	0.	109.1	17.1	109.1	0.0	-1	0	0	0	0	0	0	4.330	3	0	2	0
37	26	9	47.1	409.	-101.	9.	173.	428.	-98.	0.	49.2	9.0	49.2	0.0	-1	0	0	0	0	0	0	0.482	4	0	4	0
38	3	14	74.6	686.	-33.	15.	-75.	640.	-6.	0.	65.1	15.1	65.0	0.0	-1	0	0	0	0	0	0	1.172	4	0	5	0
39	26	8	29.0	844.	-153.	10.	-260.	840.	-140.	0.	39.8	9.7	39.8	0.0	-1	0	0	0	0	0	0	21.654	4	0	5	0
40	26	8	36.1	367.	29.	7.	249.	370.	28.	0.	23.3	6.7	23.3	0.0	-1	0	0	0	0	0	0	57.284	4	0	4	0
41	26	9	44.5	476.	-157.	7.	92.	492.	-148.	0.	51.9	6.7	51.9	0.0	-1	0	0	0	0	0	0	0.572	4	0	4	0
42	3	14	41.5	1061.	829.	12.	-196.	1045.	835.	0.	65.3	11.7	65.3	0.0	-1	0	0	0	0	0	0	1.638	5	0	8	0
43	3	14	74.9	720.	-311.	24.	-184.	885.	472.	83.	188.4	123.5	174.7	7.4	92	17	*	*	*	*	*	0.846	3	0	5	4
43	3	14	74.9	865.	369.	107.	-184.	885.	462.	83.	181.5	103.5	163.0	22.8	92	17	0	0	0	0	0	0.085	3	0	5	4
43	3	14	74.9	865.	369.	107.	-184.	871.	469.	83.	182.3	103.5	169.1	52.0	92	17	0	0	0	0	0	0.085	3	0	5	4
43	3	14	74.9	865.	369.	107.	-184.	871.	470.	83.	183.4	103.5	172.6	0.2	92	17	0	0	0	0	0	0.085	3	0	5	4
43	3	14	74.9	865.	369.	107.	-184.	873.	513.	83.	185.5	103.8	174.7	0.2	92	17	0	0	0	0	0	0.085	3	0	5	4
43	3	14	74.9	865.	369.	107.	-184.	870.	476.	83.	183.3	103.6	171.7	36.8	92	17	0	0	0	0	0	0.085	3	0	5	4
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43	3	14	74.9	865.	369.	107.	-184.	877.	473.	83.	199.8	103.5	199.8	0.2	92	17	0	0	0	0	1	0.085	3	0	5	4
43	3	14	74.9	865.	369.	107.	-184.	881.	667.	68.	200.7	103.5	200.7	194.5	91	17	0	0	0	0	1	0.085	3	0	5	4

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44 28  6  43.0  260. -317.   6.  256.  262. -318.   0.  20.4  5.5  20... 0.0 -1  0  0  0  0  0  0  12.750  4  0  4  0
45  3 14  53.3  519.  118.  22.  127.  577.  103.   0.  73.0 21.9  73.0   0.0 -1  0  0  0  0  0  0  10.163  4  0  3  0
46  8  7   4.0  899.  333.  13. -178.  901.  333.   0.  28.6 13.1  28.6   0.0 -1 24  0  0  0  0  0   0.508  4  0  1  0
47 26  8  27.0  470. -115.   8.  110.  478. -111.   0.  33.3  8.1  33.3   0.0 -1  0  0  0  0  0  0  10.254  4  0  4  0
48  2  4  38.2  789.   65.   9. -146.  795.   71.   0.  32.8  8.8  32.8   0.0 -1  0  0  0  0  0  0   4.579  5  0  5  0
49 25  1   3.0 1048. 1683.  10.   54. 1047. 1682.   0.  24.3  9.8  24.3   0.0 -1  0  0  0  0  0  0   0.402  4  0 14  0
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52  3 16  17.4 1159.  693.  25. -327. 1158.  696.   0.  41.0 24.6  41.0   0.0 -1  0  0  0  0  0  0   0.070  5  0  2  0
53 26  9  23.3  581. -339.   6.  -60.  592. -322.   0.  58.3  6.1  58.3   0.0 -1  0  0  0  0  0  0   3.018  4  0  4  0
54 26  9  23.6  630. -320.   7. -101.  640. -299.   0.  62.1  6.5  62.1   0.0 -1  0  0  0  0  0  0   0.584  4  0  4  0
55  3 14  38.8  546.  144.  24.  109.  737.  280.  27. 152.9 35.1 152.9   7.0 35  8  *  *  *  *  *   1.915  3  0  3  5
55  3 14  38.8  733.  278.  27.  109.  737.  280.  27. 153.1 26.6 153.1   1.0 35  8  0  0  0  0  0   0.191  3  0  3  5
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57 12 18   2.9  927. 1930.  11.  239.  982. 1930.   0.  76.5 11.1  76.5   0.0 -1  0  0  0  0  0  0   0.221  3  0 14  0
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84  3 14  49.4  871.  320.  28. -152.  887.  366.  31. 141.5 31.4 141.5 109.4 53 11  0  0  0  0  0   0.876  3  0  1  7
84  3 14  49.4  871.  320.  28. -152.  886.  366.  29. 144.2 29.4 144.2  69.5 53 11  0  0  0  0  0   0.876  3  0  1  7
84  3 14  49.4  871.  320.  28. -152.  885.  366.  30. 150.2 29.8 150.2  51.0 53 11  0  0  0  0  0   0.876  3  0  1  7
84  3 14  49.4  871.  320.  28. -152.  887.  366.  29. 141.3 29.5 141.3  92.5 53 11  0  0  0  0  0   0.876  3  0  1  7
84  3 14  49.4  871.  320.  28. -152.  886.  366.  30. 155.0 30.5 155.0  42.1 53 11  0  0  0  0  0   0.876  3  0  1  7
84  3 14  49.4  871.  320.  28. -152.  885.  366.  31. 149.9 30.7 149.9  60.5 53 11  0  0  0  0  0   0.876  3  0  1  7
84  3 14  49.4  871.  320.  28. -152.  886.  366.  29. 154.0 29.3 154.0  40.7 53 11  0  0  0  0  0   0.876  3  0  1  7
84  3 14  49.4  871.  320.  28. -152.  887.  366.  30. 159.0 30.0 159.0  39.4 53 11  0  0  0  0  0   0.876  3  0  1  7
84  3 14  49.4  871.  320.  28. -152.  901.  359.  31. 159.0 30.5 153.6  81.3130 24  0  0  0  0  0   0.876  3  0  1  7
```

```
 85  1  6 338.7  666.  126.  17.  -12.  667.  130.  16.  19.4  17.3  19.      4.1  11  4  0  0  0  0  0  0.104  4  0  5   8
 85  1  6 338.7  666.  126.  17.  -12.  674.  130.   7.  27.6  17.3  27.6   11.6  11  4  0  0  0  0  0  0.104  4  0  5   9
 86  1  6 275.4 1150. 1978.  22.   38. 1143. 1971.   0.  37.4  21.9  37.4    0.0  -1  0  0  0  0  0  0  0.308  4  0 14   0
 87 25  1   3.4  729. -205.  12. -164.  735. -183.   0.  43.4  12.3  43.4    0.0  -1  0  0  0  0  0  0  0.346  4  0  5   0
 88  3 14  69.6  591.  238.  12.   92.  605.  280.   1.  75.2  11.9  75.2   47.7  23  6  0  0  0  0  0  2.369  4  0  1  10
 88  3 14  69.6  591.  238.  12.   92.  605.  275.   0.  75.2  11.9  33.3    0.0  -1  6  0  0  0  0  0  2.369  4  0  1  10
 89  3 14  59.6  499.  102.  22.  142.  696.  210.   0. 148.5  24.0 148.5    0.0  -1  4  0  0  0  0  0  2.054  3  0  3   0
 90  3 14  51.3  966.  299.  16. -252.  968.  305.  12.  51.3  15.0  51.3    6.7  40  9  0  0  0  0  0  2.011  5  0  1  11
 90  3 14  51.3  966.  299.  16. -252.  964.  334.   5.  86.3  15.0  86.3   44.5125 23  *  *  *  *  *  2.011  5  0  1  12
 90  3 14  51.3  966.  299.  16. -252.  968.  318.   9.  83.7  15.1  83.7   13.5  40  9  0  0  0  0  0  0.201  5  0  1  12
 90  3 14  51.3  966.  299.  16. -252.  959.  334.  12. 105.2  15.4 105.2   26.0125 23  0  0  0  0  0  0.201  5  0  1  12
 90  3 14  51.3  966.  299.  16. -252.  961.  303.   0.  39.8  15.3  39.8    0.0  -1  9  0  0  0  0  0  0.201  5  0  1  12
 90  3 14  51.3  966.  299.  16. -252.  959.  334.  35.  69.5  34.6  69.5   44.8125 23  0  0  0  0  0  0.201  5  0  1  12
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 91  3 14  53.6  867.  329.  20. -148.  886.  366.  47.  92.9  47.3  92.9   74.8  53 11  *  *  *  *  *  8.511  3  0  1  13
 91  3 14  53.6  884.  362.  45. -148.  886.  366.  47.  93.7  46.8  93.7   12.7  53 11  0  0  0  0  0  0.851  3  0  1  13
 91  3 14  53.6  884.  362.  45. -148.  886.  366.  47.  93.6  46.8  93.6   31.0  53 11  0  0  0  0  0  0.851  3  0  1  13
 91  3 14  53.6  884.  362.  45. -148.  886.  366.  47.  93.6  47.2  93.6   32.2  53 11  0  0  0  0  0  0.851  3  0  1  13
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 91  3 14  53.6  884.  362.  45. -148.  886.  366.  47.  94.0  47.2  94.0   32.6  53 11  0  0  0  0  0  0.851  3  0  1  13
 91  3 14  53.6  884.  362.  45. -148.  886.  366.  47.  89.1  47.2  89.1   64.3  53 11  0  0  0  0  0  0.851  3  0  1  13
 91  3 14  53.6  884.  362.  45. -148.  886.  366.  47.  90.3  47.3  90.3   67.5  53 11  0  0  0  0  0  0.851  3  0  1  13
 91  3 14  53.6  884.  362.  45. -148.  886.  366.  47.  95.1  46.9  95.1   47.3  53 11  0  0  0  0  0  0.851  3  0  1  13
 91  3 14  53.6  884.  362.  45. -148.  886.  366.  47.  93.9  47.2  93.9   22.5  53 11  0  0  0  0  0  0.851  3  0  1  13
 91  3 14  53.6  884.  362.  45. -148.  886.  366.  47.  88.8  47.0  88.8   17.9  53 11  0  0  0  0  0  0.851  3  0  1  13
 91  3 14  53.6  884.  362.  45. -148.  893.  366.  54.  88.8  53.8  85.9    0.1  53 11  0  0  0  0  0  0.851  3  0  1  13
 92  3 14  44.9  996.  504.  16. -224. 1007.  542.   0. 109.0  15.5 109.0    0.0  -1 18  0  0  0  0  0  4.418  5  0  2   0
 93  3 16  15.2 1059. 1681.   9.   43. 1064. 1685.   0.  28.3   8.6  28.3    0.0  -1  0  0  0  0  0  0  1.059  4  0 14   0
 94 14 12  43.3 1013.  849.  22. -144. 1025.  876.   0.  52.3  21.5  52.3    0.0  -1  0  0  0  0  0  0  1.330  4  0  8   0
 95 26  9  38.2  423.   34.  11.  197.  443.   37.   0.  50.0  10.7  50.0    0.0  -1  0  0  0  0  0  0  2.143  4  0  4   0
 96 26  9  41.6  365. -269.  10.  168.  385. -266.   0.  49.8  10.2  49.8    0.0  -1  0  0  0  0  0  0  0.444  4  0  4   0
 97  1  6 457.1  951. 2018.  22.  241.  967. 2008.   0.  43.1  22.1  43.1    0.0  -1  0  0  0  0  0  0  0.061  4  0 14   0
 98  3 14  45.4  361.   92.  10.  272.  389.   94.   0.  56.1   9.5  56.1    0.0  -1  0  0  0  0  0  0 17.143  4  0  3   0
 99  3 14  48.8  104.-1794.  38.   -5.  473.-1175.   0. 213.0  48.8 211.5    0.0  -1  0  0  0  0  0  0  6.335  3  0 11   0
100 25  1   3.0  452.   54.  13.  174.  471.   56.   0.  39.4  13.1  39.4    0.0  -1  0  0  0  0  0  0  1.645  4  0  3   0
101  3 14  50.2 1288. 1055.  11. -351. 1288. 1056.  11.  11.9  10.9  11.9    0.0   0 -1  0  0  0  0  0  0.0    5  0  7   0
102  1  6 735.7  749. 1318.  19.  240.  760. 1307.   0.  42.7  18.5  42.7    0.0  -1  0  0  0  0  0  0  0.030  4  0  8   0
103  1  6 101.5  955.    4.  12. -323.  956.   17.   0.  36.2  12.1  36.2    0.0  -1  0  0  0  0  0  0  0.652  4  0  5   0
104 14 12  62.0 1005. 1207.  25.  -36. 1021. 1228.   0.  48.0  24.5  48.0    0.0  -1  0  0  0  0  0  0  2.418  4  0  8   0
105 26  9  38.7  483.   45.  11.  142.  504.   54.   0.  53.0  10.4  53.0    0.0  -1  0  0  0  0  0  0  0.437  4  0  4   0
106  1  6 510.0  959. 2046.   9.  241.  970. 2043.   0.  30.3   9.0  30.3    0.0  -1  0  0  0  0  0  0  0.537  4  0 14   0
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108  8  7   4.0  403.  228.  13.  269.  404.  228.   0.  28.1  12.4  28.1    0.0  -1  0  0  0  0  0  0  0.527  4  0  1   0
109 25  1   3.3  894. -287.  10. -345.  895. -281.   0.  28.9  10.3  28.9    0.0  -1  0  0  0  0  0  0  1.947  4  0  5   0
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112  3 14  51.0  695.  227.  11.  -11.  737.  280.   8. 120.1  11.2 120.1   36.4  35  8  *  *  *  *  *  2.469  3  0  1  14
112  3 14  51.0  736.  278.   9.  -11.  737.  280.   8. 120.1   8.5 120.1   14.5  35  8  0  0  0  0  0  0.247  3  0  1  14
112  3 14  51.0  736.  278.   9.  -11.  738.  280.   8. 119.7   8.4 119.7   62.9  35  8  0  0  0  0  0  0.247  3  0  1  14
112  3 14  51.0  736.  278.   9.  -11.  737.  280.   8. 120.1   8.5 120.1   39.8  35  8  0  0  0  0  0  0.247  3  0  1  14
112  3 14  51.0  736.  278.   9.  -11.  738.  280.   8. 120.0   8.5 120.0   20.6  35  8  0  0  0  0  0  0.247  3  0  1  14
112  3 14  51.0  736.  278.   9.  -11.  738.  280.   8. 118.7   8.5 118.7   52.2  35  8  0  0  0  0  0  0.247  3  0  1  14
112  3 14  51.0  736.  278.   9.  -11.  738.  280.   8. 120.2   8.5 120.2   58.0  35  8  0  0  0  0  0  0.247  3  0  1  14
112  3 14  51.0  736.  278.   9.  -11.  737.  280.   8. 119.4   8.4 119.4   18.6  35  8  0  0  0  0  0  0.247  3  0  1  14
112  3 14  51.0  736.  278.   9.  -11.  738.  280.   8. 120.1   8.5 120.1   29.0  35  8  0  0  0  0  0  0.247  3  0  1  14
112  3 14  51.0  736.  278.   9.  -11.  738.  280.   8. 120.1   8.5 120.1   24.2  35  8  0  0  0  0  0  0.247  3  0  1  14
112  3 14  51.0  736.  278.   9.  -11.  738.  280.   8. 119.6   8.4 119.6   49.5  35  8  0  0  0  0  0  0.247  3  0  1  14
112  3 14  51.0  736.  278.   9.  -11.  887.  310.   0. 168.5   8.4 168.4    0.0  -1 24  0  0  0  0  0  0.247  3  0  1  14
113  8  7   4.0  607.  267.  14.   84.  608.  266.   0.  29.9  13.7  29.9    0.0  -1  0  0  0  0  0  0  2.448  4  0  1   0
114  3 14  67.3  504.  274.  15.  185.  582.  280.  32. 106.2  31.9 106.2    0.1  17  5  *  *  *  *  *  2.034  3  0  1  15
114  3 14  67.3  543.  275.  26.  185.  872.  308.   0. 161.8  34.0 161.8    0.0  -1  0  0  0  0  0  0  0.203  3  0  1  15
114  3 14  67.3  543.  275.  26.  185.  576.  280.  30.  82.3  29.6  82.3    5.4  17  5  0  0  0  0  0  0.203  3  0  1  15
114  3 14  67.3  543.  275.  26.  185.  576.  280.  30.  80.8  30.1  80.8    4.7  17  5  0  0  0  0  0  0.203  3  0  1  15
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114  3 14  67.3  543.  275.  26.  185.  578.  280.  30.  83.0  30.4  83.0    0.3  17  5  0  0  0  0  0  0.203  3  0  1  15
114  3 14  67.3  543.  275.  26.  185.  586.  280.  28.  83.0  28.8  83.0   16.4  17  5  0  0  0  0  0  0.203  3  0  1  15
114  3 14  67.3  543.  275.  26.  185.  582.  280.  31.  83.4  31.0  83.4   16.8  17  5  0  0  0  0  0  0.203  3  0  1  15
114  3 14  67.3  543.  275.  26.  185.  613.  280.  26.  80.1  29.7  80.1    0.1  23  6  0  0  0  0  0  0.203  3  0  1  15
114  3 14  67.3  543.  275.  26.  185.  578.  280.  30.  77.1  30.4  72.7   24.1  17  5  0  0  0  0  0  0.203  3  0  1  15
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114        67.3  543.   275.  26.  185.  675.   291.   0.  81.2  30.1  81    0.0 -1  0  0  0  0  0  0   0.203  3  0  1  15
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117  3 14  66.2  693.   204.  24.  -16.  901.   308.  45. 139.1  48.6 139.1  23.6130 24  *  *  *  *  *  *   7.400  3  0  1  16
117  3 14  66.2  841.   259.  47.  -16.  901.   307.  46. 154.4  48.4 154.4  70.2130 24  0  0  0  0  0  0   0.740  3  0  1  16
117  3 14  66.2  841.   259.  47.  -16.  901.   312.  46. 147.8  48.5 147.8  88.6130 24  0  0  0  0  0  0   0.740  3  0  1  16
117  3 14  66.2  841.   259.  47.  -16.  901.   303.  51. 140.9  50.9 140.9  27.8130 24  0  0  0  0  0  0   0.740  3  0  1  16
117  3 14  66.2  841.   259.  47.  -16.  901.   307.  50. 153.7  50.2 153.7  50.8130 24  0  0  0  0  0  0   0.740  3  0  1  16
117  3 14  66.2  841.   259.  47.  -16.  901.   310.  48. 132.2  49.3 132.2  24.7130 24  0  0  0  0  0  0   0.740  3  0  1  16
117  3 14  66.2  841.   259.  47.  -16.  901.   306.  52. 143.3  51.9 143.3  23.5130 24  0  0  0  0  0  0   0.740  3  0  1  16
117  3 14  66.2  841.   259.  47.  -16.  901.   309.  47. 155.6  48.6 155.6  96.5130 24  0  0  0  0  0  0   0.740  3  0  1  16
117  3 14  66.2  841.   259.  47.  -16.  901.   308.  52. 145.6  51.8 145.6  27.6130 24  0  0  0  0  0  0   0.740  3  0  1  16
117  3 14  66.2  841.   259.  47.  -16.  901.   305.  51. 147.4  51.4 147.4  57.5130 24  0  0  0  0  0  0   0.740  3  0  1  16
117  3 14  66.2  841.   259.  47.  -16.  901.   312.  46. 146.9  48.5 146.9  89.8130 24  0  0  0  0  0  0   0.740  3  0  1  16
117  3 14  66.2  841.   259.  47.  -16.  891.   366.  30. 146.9  48.5 140.7  50.1 53 11  0  0  0  0  0  0   0.740  3  0  1  16
118 25  1   2.8  427.    88.  11.  208.  428.    83.   0.  26.3  11.0  26.3  0.0 -1  0  0  0  0  0  0   0.372  4  0  3   0
119 26  8  36.4  735.  -887.  32. -359.  735.  -868.   0.  49.3  31.3  49.3  0.0 -1  0  0  0  0  0  0   8.422  5  0 12   0
120 14 11  78.9  774.   742.  18.   56.  780.   746.   0.  36.0  18.0  36.0  0.0 -1  0  0  0  0  0  0   0.610  4  0  2   0
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123 14 13  20.2  953.  1921.  17.  211.  957.  1917.   0.  33.3  16.5  33.3  0.0 -1  0  0  0  0  0  0   2.487  4  0 14   0
124  3 15  20.9  646.   738.  21.  178.  656.   742.   0.  35.3  20.7  35.3  0.0 -1 22  0  0  0  0  0   1.028  4  0  2   0
125  3 15  15.1 1305.  1067.  15. -364. 1305.  1067.  14.   3.4  14.5   3.4  0.0 -1  0  0  0  0  0  0   0.0    5  0  7   0
126  3 14  66.8 1049.   261.  15. -342. 1027.   280.   9.  52.9  15.1  52.9  29.6 42  9  0  0  0  0  0  10.243  4  0  1  17
126  3 14  66.8 1049.   261.  15. -342. 1028.   289.   6.  52.9  15.1  52.3  33.9  7  3  0  0  0  0  0  10.243  4  0  1  18
127 26  8  24.8  506.  -232.  10.   43.  516.  -224.   0.  38.6   9.4  38.6  0.0 -1  0  0  0  0  0  0   9.332  4  0  4   0
128 26  9  22.1  406.    49.  12.  217.  425.    47.   0.  46.3  12.0  46.3  0.0 -1  0  0  0  0  0  0   0.397  4  0  4   0
129 26  8  42.6  371.  -117.  13.  205.  381.  -116.   0.  34.7  12.4  34.7  0.0 -1  0  0  0  0  0  0   7.713  4  0  4   0
130 14 12  76.3  930.  1756.  24.  188.  939.  1748.   0.  42.1  24.0  42.1  0.0 -1  0  0  0  0  0  0   0.101  4  0 14   0
131  3 15  22.4  634.   230.  14.   49.  639.   238.   0.  30.9  13.7  30.9  0.0 -1  0  0  0  0  0  0   0.155  4  0  1   0
132 12 18   1.4  964.  1605.  13.  113. 1318.  1638.   0. 134.6  48.2 124.0  0.0 -1  0  0  0  0  0  0   0.039  3  0 14   0
133 26  9  48.4  611.   -28.  14.   -2.  642.     2.   0.  77.3  14.0  77.3  0.0 -1  0  0  0  0  0  0   0.356  4  0  4   0
134  3 14  75.9  393.    64.  15.  233.  602.    78.   0. 138.9  26.5 138.9  0.0 -1  0  0  0  0  0  0   2.637  3  0  3   0
135 14 11  63.7  881.  1451.   9.  150.  888.  1449.   0.  28.6   8.8  28.6  0.0 -1  0  0  0  0  0  0   0.099  4  0 14   0
136  3 14  52.9  646.    79.  23.   -5.  666.   130.  28. 106.9  27.9 106.9  51.7 11  4  *  *  *  *  *   9.813  3  0  3  19
136  3 14  52.9  646.    79.  23.   -5.  947.   185.  40. 146.6  42.7 146.6   5.0143 26  0  0  0  0  0  0   0.981  3  0  3  19
136  3 14  52.9  646.    79.  23.   -5.  655.    81.   0.  41.8  22.9  41.8  0.0 -1  0  0  0  0  0  0   0.981  3  0  3  19
136  3 14  52.9  646.    79.  23.   -5.  651.    83.   0.  42.3  22.9  42.3  0.0 -1  0  0  0  0  0  0   0.981  3  0  3  19
136  3 14  52.9  646.    79.  23.   -5.  645.    84.   0.  41.3  22.9  41.3  0.0 -1  0  0  0  0  0  0   0.981  3  0  3  19
136  3 14  52.9  646.    79.  23.   -5.  651.    84.   0.  40.9  22.9  40.9  0.0 -1  0  0  0  0  0  0   0.981  3  0  3  19
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136  3 14  52.9  646.    79.  23.   -5.  653.    96.   0.  39.7  22.9  39.7  0.0 -1  0  0  0  0  0  0   0.981  3  0  3  19
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136  3 14  52.9  646.    79.  23.   -5.  654.    89.   0.  40.5  22.9  40.5  0.0 -1  0  0  0  0  0  0   0.981  3  0  3  19
137  3 14  41.7  481.   191.  14.  184.  482.   191.   0.  43.6  14.3  43.6  0.0 -1  0  0  0  0  0  0   2.713  4  0  3   0
138 26  9  28.3  381. -1058.  34.  -67.  457.  -963.   0. 118.4  33.6 118.4  0.0 -1  0  0  0  0  0  0   0.928  4  0 12   0
139 26  9  28.4  604.   -91.  10.  -12.  625.   -68.   0.  68.1   9.7  68.1  0.0 -1  0  0  0  0  0  0   0.459  4  0  4   0
140  8  7   4.0  433.   262.  14.  250.  433.   262.   0.  29.5  14.0  29.5  0.0 -1  0  0  0  0  0  0   2.416  4  0  1   0
141 26  8  31.4  550.     4.  11.   66.  562.    11.   0.  39.4  11.1  39.4  0.0 -1  0  0  0  0  0  0  41.826  4  0  4   0
142  3 14  51.7 1021.   896.  24. -138. 1034.   947.  25.  99.9  25.4  99.9  0.0  0 -1  0  0  0  0  0   0.0    3  0  8   0
143 26  9  40.0 1198.  1503.   8. -140. 1208.  1530.   0.  66.8   8.0  66.8  0.0 -1  0  0  0  0  0  0   0.557  4  0 14   0
144 26  8  22.0  565.  -119.   8.   18.  572.  -112.   0.  34.5   8.0  34.5  0.0 -1  0  0  0  0  0  0  10.330  4  0  4   0
145  3 14  62.4 1007.   860.  13. -135.  973.   864.   0.  71.5  12.4  71.5  0.0 -1  0  0  0  0  0  0   1.598  5  0  8   0
146 25  1   3.2  842.   175.  11. -167.  831.   200.   0.  47.2  11.4  47.2  0.0 -1  0  0  0  0  0  0   0.365  4  0  5   0
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148 14 13  41.2  957.  1831.  13.  183.  957.  1831.  13.   3.4  13.0   3.4  0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
149 26  8  33.6  645.   -54.  13.  -41.  657.   -38.   0.  47.9  13.0  47.9  0.0 -1  0  0  0  0  0  0   7.468  4  0  4  20
150 25  1   2.1  864.   354.  15. -139.  865.   366.   8.  35.3  14.6  35.3  0.0 53 11  0  0  0  0  0   0.304  4  0  1  20
150 25  1   2.1  864.   354.  15. -139.  865.   366.   8.  35.3  14.6  34.9  0.0 53 11  0  0  0  0  0   0.304  4  0  1  21
151  3 14  67.1  732.   231.  22.  -46.  812.   314.   0. 148.2  21.7 147.8  0.0 -1 11  0  0  0  0  0   1.587  5  0  1   0
152  3 15  32.6  540.   214.  21.  134.  540.   212.   0.  36.1  21.2  36.1  0.0 -1  0  0  0  0  0  0   0.577  4  0  1   0
153  3 14  22.9  744.  1106.  17.  186.  782.  1104.  11.  84.9  16.5  84.9  0.0  0 -1  0  0  0  0  0   0.0    4  0  8   0
154 25  1   2.0  239.  -509.  30.  222.  239.  -509.  30.   3.4  30.4   3.4  0.0  0 -1  0  0  0  0  0   0.0    4  0 12   0
155 26  8  21.0  411.  -330.   5.  106.  417.  -327.   0.  28.2   5.3  28.2  0.0 -1  0  0  0  0  0  0  12.926  4  0  4   0
156 26  8  46.6  518.  -130.  13.   59.  533.  -120.   0.  44.1  13.1  44.1  0.0 -1  0  0  0  0  0  0   7.431  4  0  4   0
157 26  9  33.8  427.  -303.  14.   99.  458.  -287.   0.  68.4  13.5  68.4  0.0 -1  0  0  0  0  0  0   0.364  4  0  4   0
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159 26  8  38.9  276. -1174.  30.    2.  313. -1143.   0.  70.2  29.9  70.2  0.0 -1  0  0  0  0  0  0   9.234  4  0 12   0
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162  3 14  25.5  833.  -119.  22. -240.  841.   -95.   0.  88.3  21.2  88.3  0.0 -1  0  0  0  0  0  0   4.582  5  0  5   0
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164  1  6 614.3  926.  -183.  11. -347.  925.  -173.   0.  33.1  10.8  33.1  0.0 -1  0  0  0  0  0  0   0.697  4  0  5   0
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166 14 13  36.5  784.  1471.  14.  249.   784.  1471.  14.   3.4  13.9   3.4    0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
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169 14 11  58.7 1163.  1770.  21.  -32.  1163.  1770.  21.   2.5  20.9   2.5    0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
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173  3 14  32.4  915.   217.  10. -226.   922.   280.  27. 119.7  26.7 119.7   53.1131 24  *  *  *  *  *   2.604  3  0  1  22
173  3 14  32.4  921.   276.  26. -226.   922.   280.  27. 120.4  26.6 120.4   29.7131 24  0  0  0  0  0   0.260  3  0  1  22
173  3 14  32.4  921.   276.  26. -226.   922.   280.  27. 118.0  26.7 118.0   71.9131 24  0  0  0  0  0   0.260  3  0  1  22
173  3 14  32.4  921.   276.  26. -226.   922.   280.  27. 119.5  26.7 119.5   43.7131 24  0  0  0  0  0   0.260  3  0  1  22
173  3 14  32.4  921.   276.  26. -226.   922.   280.  27. 119.9  26.6 119.9   36.2131 24  0  0  0  0  0   0.260  3  0  1  22
173  3 14  32.4  921.   276.  26. -226.   922.   280.  27. 117.3  26.6 117.3  114.5131 24  0  0  0  0  0   0.260  3  0  1  22
173  3 14  32.4  921.   276.  26. -226.   922.   280.  27. 118.2  26.6 118.2   90.0131 24  0  0  0  0  0   0.260  3  0  1  22
173  3 14  32.4  921.   276.  26. -226.   922.   280.  27. 118.5  26.6 118.5   56.7131 24  0  0  0  0  0   0.260  3  0  1  22
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179  1  6 813.6  677.  -280.  19. -135.   686.  -231.   0.  73.9  18.6  73.9    0.0 -1  0  0  0  0  0  0   0.496  4  0  5   0
180 26  9  43.8  326.    15.   5.  284.   331.    14.   0.  23.1   5.2  23.1    0.0 -1  0  0  0  0  0  0   0.659  5  0  4   0
181 26  9  32.9  639.-1190.  33. -351.   638.-1151.   0.  62.8  32.6  62.8    0.0 -1  0  0  0  0  0  0   0.196  5  0 12   0
182  3 14  22.5  885.   291.  19. -176.   856.   366.  26. 123.7  26.1 123.7   32.9 53 11  *  *  *  *  *   8.764  3  0  1  23
182  3 14  22.5  863.   342.  25. -176.   856.   366.  26. 107.7  26.3 106.7  100.9 53 11  0  0  0  0  0   0.876  3  0  1  23
182  3 14  22.5  863.   342.  25. -176.   857.   366.  27. 125.0  26.7 125.0   33.1 53 11  0  0  0  0  0   0.876  3  0  1  23
182  3 14  22.5  863.   342.  25. -176.   857.   366.  27. 124.0  26.7 124.0   32.2 53 11  0  0  0  0  0   0.876  3  0  1  23
182  3 14  22.5  863.   342.  25. -176.   858.   366.  26. 113.9  26.1 113.9   84.6 53 11  0  0  0  0  0   0.876  3  0  1  23
182  3 14  22.5  863.   342.  25. -176.   857.   366.  26. 124.3  26.4 124.3   30.2 53 11  0  0  0  0  0   0.876  3  0  1  23
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183  3 14  38.8  767.    91.  13. -162.   736.   130.   2. 105.9  11.7 105.9   38.9 11  4  0  0  0  0  0   0.489  4  0  5  24
183  3 14  38.8  767.    91.  13. -162.   737.   130.   4. 105.1  11.7 105.1   71.7 11  4  0  0  0  0  0   0.489  4  0  5  24
183  3 14  38.8  767.    91.  13. -162.   736.   130.   3. 104.3  11.7 104.3   65.2 11  4  0  0  0  0  0   0.489  4  0  5  24
183  3 14  38.8  767.    91.  13. -162.   737.   130.   1. 101.6  11.6 101.6   38.6 11  4  0  0  0  0  0   0.489  4  0  5  24
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185  3 14  66.8  774.   275.  27.   54.   876.   366.  22. 162.0  27.4 162.0   40.8 53 11  0  0  0  0  0   0.243  3  0  3  25
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185  3 14  66.8  774.   275.  27.   54.   901.   365.   4. 142.5  27.3 135.2   75.5130 24  0  0  0  0  0   0.243  3  0  3  25
185  3 14  66.8  774.   275.  27.   54.   900.   366.   4. 140.1  27.3 120.8   30.3 53 11  0  0  0  0  0   0.243  3  0  3  25
185  3 14  66.8  774.   275.  27.   54.   889.   366.  11. 140.5  27.4 122.4   94.1 53 11  0  0  0  0  0   0.243  3  0  3  25
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185  3 14  66.8  774.   275.  27.   54.   901.   361.   6. 139.2  27.4  94.0   39.1130 24  0  0  0  0  0   0.243  3  0  3  25
186 26  8  31.8  447.  -290.  11.   83.   460.  -283.   0.  40.2  11.2  40.2    0.0 -1  0  0  0  0  0  0   8.278  4  0  4   0
187  3 14  25.7 1013.  1178.  18.  -52.   989.  1211.   0.  50.6  18.2  50.6    0.0 -1  0  0  0  0  0  0   2.515  4  0  8   0
188 26  9  36.1  483.  -293.   7.   48.   499.  -281.   0.  54.9   6.6  54.9    0.0 -1  0  0  0  0  0  0   0.581  4  0  4   0
189 26  8  32.2  527.     1.  12.   87.   541.     8.   0.  41.3  12.3  41.3    0.0 -1  0  0  0  0  0  0  38.808  4  0  4   0
190 26  9  23.7  638.  -154.   9.  -63.   656.  -126.   0.  71.3   9.2  71.3    0.0 -1  0  0  0  0  0  0   0.475  4  0  4   0
191  3 14  22.4  530.   243.  17.  152.   535.   221.   0.  39.9  17.0  39.8    0.0 -1  0  0  0  0  0  0   9.439  4  0  1   0
192 14 13  12.5 1239.  1625.  20. -145.  1254.  1641.   0.  39.3  20.4  39.3    0.0 -1  0  0  0  0  0  0   4.317  4  0 14   0
193 14 13  56.3  945.  -156.  22. -358.   946.  -144.   0.  39.2  22.1  39.2    0.0 -1  0  0  0  0  0  0   2.184  4  0  5   0
194 26  9  42.5  441.   -94.  11.  143.   465.   -86.   0.  57.6  10.6  57.6    0.0 -1  0  0  0  0  0  0   0.432  4  0  4   0
```

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195  ●     27.2  549.  -201.  15.   10.  565.  -186.   0.  48.7  14.4  4●    0.0 -1  0  0  0  0  0  0  34.680  4  0   4   0
196        20.4 1125.   910.  25. -234.  976.  1114.  45. 139.3  45.3 139●   0.0  0 -1  0  0  0  0  0  0   0.0   3  0   8   0
197  3 14  58.1  744.  1405.  18.  269.  745.  1405.  18.   6.0  18.1   6.0  0.0  0 -1  0  0  0  0  0  0   0.0   4  0   8   0
198 26  9  23.7  441.     5.   6.  171.  453.     6.   0.  37.8   6.1  37.8  0.0 -1  0  0  0  0  0  0   0.604  4  0   4   0
199 26  8  34.2  576. -1063.  26. -256.  574. -1025.   0.  65.7  25.7  65.7  0.0 -1  0  0  0  0  0  0  12.771  4  0  12   0
200 26  8  48.5  469.   -90.   9.  117.  478.   -86.   0.  33.7   8.5  33.7  0.0 -1  0  0  0  0  0  0   9.956  4  0   4   0
201 26  9  38.1  457.  -291.  12.   74.  483.  -276.   0.  63.6  11.8  63.6  0.0 -1  0  0  0  0  0  0   2.008  4  0   4   0
202  3 15  23.6  616.   810.  21.  227.  619.   810.   0.  34.2  20.7  34.2  0.0 -1  0  0  0  0  0  0   0.478  4  0   8   0
203  3 17   4.5 1106.  1874.  10.   52. 1105.  1874.   0.  25.1   9.9  25.1  0.0 -1  0  0  0  0  0  0   0.034  4  0  14   0
204  1  6  65.3 1005.  1465.  18.   35. 1005.  1465.  18.   2.9  17.5   2.9  0.0  0 -1  0  0  0  0  0  0   0.0   4  0  14   0
205 26  8  47.8  537.   -18.  14.   73.  553.    -8.   0.  45.5  14.1  45.5  0.0 -1  0  0  0  0  0  0  35.223  4  0   4   0
206  1  6 293.5  856.  -146.   9. -270.  849.  -116.   0.  49.7   9.2  49.7  0.0 -1  0  0  0  0  0  0   0.152  4  0   5   0
207  1  6 206.5  992.  1846.  12.  154.  992.  1846.  12.   2.2  12.3   2.2  0.0  0 -1  0  0  0  0  0  0   0.0   4  0  14   0
208  8  7   4.0  565.   242.  13.  118.  566.   241.   0.  28.8  13.0  28.8  0.0 -1  0  0  0  0  0  0   0.510  4  0   1   0
209  3 15  14.6  800.   865.  15.   66.  867.   867.   0.  32.8  14.4  32.8  0.0 -1  0  0  0  0  0  0   0.609  4  0   8   0
210  3 14  26.6 1077.   274.  17. -365. 1081.   307.  12.  57.0  17.1  57.0  1.1  7  3  0  0  0  0  0   1.887  4  0   1  26
210  3 14  26.6 1077.   274.  17. -365. 1108.   330.   0.  67.5  17.1  67.5  0.0 -1  0  0  0  0  0  0   1.887  4  0   1  26
211 26  9  48.6  523.  -225.  13.   28.  551.  -202.   0.  70.9  12.5  70.9  0.0 -1  0  0  0  0  0  0   1.932  4  0   4   0
212  1  6 940.5 1028.  1175.  17.  -68. 1028.  1175.  17.   3.6  16.7   3.6  0.0  0 -1  0  0  0  0  0  0   0.0   4  0   8   0
213 26  9  43.4  387.  -840.  26.  -12.  447.  -781.   0. 100.2  25.5 100.2  0.0 -1  0  0  0  0  0  0   1.635  4  0  12   0
214 26  8  28.7  601.  -142.  15.  -24.  617.  -125.   0.  50.6  14.7  50.6  0.0 -1  0  0  0  0  0  0  34.181  4  0   4   0
215 26  8  28.0  530.  -140.   6.   45.  536.  -135.   0.  30.6   5.8  30.6  0.0 -1  0  0  0  0  0  0  12.395  4  0   4   0
216 26  8  30.7  544.  -205.  12.   14.  556.  -194.   0.  43.7  11.5  43.7  0.0 -1  0  0  0  0  0  0  40.796  4  0   4   0
217 26  8  40.2  317.   -48.   9.  275.  321.   -48.   0.  26.1   9.3  26.1  0.0 -1  0  0  0  0  0  0  47.005  5  0   4   0
218 26  8  24.1  551.  -308.   9.  -22.  558.  -299.   0.  37.4   8.4  37.4  0.0 -1  0  0  0  0  0  0   9.996  4  0   4   0
219 14 13   8.1  663.   -80.  21.  -66.  669.   -70.   0.  36.4  21.0  36.4  0.0 -1  0  0  0  0  0  0   0.454  4  0   5   0
220  3 14  77.2  648.   202.  12.   27.  758.   288.  43. 153.2  43.2 153.2  75.6  4  2  *  *  *  *  * 11.722  3  0   1  27
220  3 14  77.2  750.   281.  43.   27.  759.   288.  43. 150.2  43.1 150.2  67.2  4  2  0  0  0  0  0   1.172  3  0   1  27
220  3 14  77.2  750.   281.  43.   27.  759.   288.  43. 150.7  43.3 150.7  16.9  4  2  0  0  0  0  0   1.172  3  0   1  27
220  3 14  77.2  750.   281.  43.   27.  759.   288.  43. 152.0  43.2 152.0 106.3  4  2  0  0  0  0  0   1.172  3  0   1  27
220  3 14  77.2  750.   281.  43.   27.  759.   288.  43. 152.3  43.2 152.3  32.1  4  2  0  0  0  0  0   1.172  3  0   1  27
220  3 14  77.2  750.   281.  43.   27.  759.   288.  43. 149.9  43.2 149.9  90.0  4  2  0  0  0  0  0   1.172  3  0   1  27
220  3 14  77.2  750.   281.  43.   27.  758.   288.  43. 152.7  43.2 152.7   3.8  4  2  0  0  0  0  0   1.172  3  0   1  27
220  3 14  77.2  750.   281.  43.   27.  758.   288.  43. 153.2  43.2 153.2  92.4  4  2  0  0  0  0  0   1.172  3  0   1  27
220  3 14  77.2  750.   281.  43.   27.  759.   288.  43. 153.1  43.2 153.1  84.3  4  2  0  0  0  0  0   1.172  3  0   1  27
220  3 14  77.2  750.   281.  43.   27.  759.   288.  43. 149.4  43.2 149.4  46.1  4  2  0  0  0  0  0   1.172  3  0   1  27
220  3 14  77.2  750.   281.  43.   27.  759.   288.  43. 152.3  43.2 152.3 102.7  4  2  0  0  0  0  0   1.172  3  0   1  27
220  3 14  77.2  750.   281.  43.   27.  901.   302.  40. 152.3  46.0  80.0  19.0130 24  0  0  0  0  0   1.172  3  0   1  27
221 26  9  20.6  440.  -167.   6.  125.  453.  -161.   0.  45.5   5.7  45.5  0.0 -1  0  0  0  0  0  0   0.626  4  0   4   0
222  3 16   5.1  990.   585.  22. -195.  981.   594.   0.  41.5  22.0  41.5  0.0 -1 20  0  0  0  0  0   0.076  4  0   2   0
223 26  9  24.0  348.  -123.  11.  225.  366.  -125.   0.  45.3  10.9  45.3  0.0 -1  0  0  0  0  0  0   2.120  4  0   4   0
224  3 14  54.3  581.   231.  22.   99.  685.   282.  44. 118.1  45.7 118.1  40.5 34  8  *  *  *  *  *  1.595  3  0   1  28
224  3 14  54.3  617.   248.  38.   99.  688.   280.  44. 131.1  44.7 131.1  14.1 35  8  0  0  0  0  0   0.160  3  0   1  28
224  3 14  54.3  617.   248.  38.   99.  688.   280.  54. 132.8  54.3 132.8  13.3 35  8  0  0  0  0  0   0.160  3  0   1  28
224  3 14  54.3  617.   248.  38.   99.  686.   280.  51. 133.8  50.6 133.8  84.6 35  8  0  0  0  0  0   0.160  3  0   1  28
224  3 14  54.3  617.   248.  38.   99.  703.   280.  47. 138.4  46.9 138.4   0.1 35  8  0  0  0  0  0   0.160  3  0   1  28
224  3 14  54.3  617.   248.  38.   99.  685.   286.  56. 123.7  56.0 123.7  59.8 34  8  0  0  0  0  0   0.160  3  0   1  28
224  3 14  54.3  617.   248.  38.   99.  699.   280.  60. 130.8  60.4 130.8  27.1 35  8  0  0  0  0  0   0.160  3  0   1  28
224  3 14  54.3  617.   248.  38.   99.  685.   281.  41. 119.2  43.6 119.2  38.6 34  8  0  0  0  0  0   0.160  3  0   1  28
224  3 14  54.3  617.   248.  38.   99.  689.   280.  51. 134.9  51.4 134.9   3.4 35  8  0  0  0  0  0   0.160  3  0   1  28
224  3 14  54.3  617.   248.  38.   99.  696.   280.  55. 135.9  54.6 135.9  15.9 35  8  0  0  0  0  0   0.160  3  0   1  28
224  3 14  54.3  617.   248.  38.   99.  685.   289.  49. 121.4  49.1 121.4  48.0 34  8  0  0  0  0  0   0.160  3  0   1  28
224  3 14  54.3  617.   248.  38.   99.  679.   334.  35. 121.4  49.1 102.5  19.3 29  7  0  0  0  0  0   0.160  3  0   1  28
225 26  8  33.5  867.  1549.   8.  191.  874.  1550.   0.  28.9   7.5  28.9  0.0 -1  0  0  0  0  0  0  14.450  4  0  14   0
226  1  6 935.4  736.   -57.  24. -130.  714.   -48.   0.  50.9  23.4  50.9  0.0 -1  0  0  0  0  0  0   0.421  5  0   5   0
227  3 14  25.3  727.   -49.  22. -119.  999.   301.  90. 198.4  90.2 196.0  66.8  7  3  *  *  *  *  *  0.908  3  0   5  29
227  3 14  25.3  957.   223.  89. -119.  999.   301.  90. 204.4  90.4 204.4  66.8  7  3  0  0  0  0  1   0.091  3  0   5  29
227  3 14  25.3  957.   223.  89. -119.  999.   301.  87. 198.1  89.6 198.1  81.3  7  3  0  0  0  0  1   0.091  3  0   5  29
227  3 14  25.3  957.   223.  89. -119.  998.   302.  88. 203.1  89.7 203.1  49.3  7  3  0  0  0  0  1   0.091  3  0   5  29
227  3 14  25.3  957.   223.  89. -119.  999.   301.  90. 195.7  90.6 194.8  99.3  7  3  0  0  0  0  1   0.091  3  0   5  29
227  3 14  25.3  957.   223.  89. -119.  998.   302.  88. 202.3  89.7 202.3  58.1  7  3  0  0  0  0  1   0.091  3  0   5  29
227  3 14  25.3  957.   223.  89. -119. 1000.   300.  90. 194.8  90.3 191.6  86.6  7  3  0  0  0  0  1   0.091  3  0   5  29
227  3 14  25.3  957.   223.  89. -119. 1000.   300.  91. 200.0  90.9 200.0  72.3  7  3  0  0  0  0  1   0.091  3  0   5  29
227  3 14  25.3  957.   223.  89. -119. 1000.   300.  89. 194.8  90.0 192.0  78.5  7  3  0  0  0  0  1   0.091  3  0   5  29
227  3 14  25.3  957.   223.  89. -119.  998.   301.  91. 202.4  90.6 202.4  50.0  7  3  0  0  0  0  1   0.091  3  0   5  29
227  3 14  25.3  957.   223.  89. -119.  999.   301.  87. 197.9  89.6 197.9  67.2  7  3  0  0  0  0  1   0.091  3  0   5  29
227  3 14  25.3  957.   223.  89. -119.  923.   330.  62. 197.9  89.6 171.4  18.6132 24  0  0  0  0  0   0.091  3  0   5  29
228  3 14  76.2 1112.  1031.  19. -188. 1031.  1065.   0. 100.3  18.7 100.3  0.0 -1  0  0  0  0  0  0   2.465  4  0   8   0
229 14 11  22.3 1035.   554.  13. -247. 1038.   555.   0.  30.4  12.8  30.4  0.0 -1 18  0  0  0  0  0   0.758  5  0   2   0
230  3 14  29.3  873.   239.  21. -179.  832.   366.  31. 122.0  34.4 122.0  50.3 53 11  *  *  *  *  *  8.182  3  0   1  30
230  3 14  29.3  860.   280.  31. -179.  824.   366.  36. 124.9  36.0 124.9  38.1 53 11  0  0  0  0  0   0.818  3  0   1  30
230  3 14  29.3  860.   280.  31. -179.  833.   366.  25.  99.0  33.2  99.0  35.8 53 11  0  0  0  0  0   0.818  3  0   1  30
230  3 14  29.3  860.   280.  31. -179.  835.   366.  38. 127.7  38.1 127.7  63.5 53 11  0  0  0  0  0   0.818  3  0   1  30
230  3 14  29.3  860.   280.  31. -179.  842.  ,366.  34. 125.4  34.5 125.4  74.0 53 11  0  0  0  0  0   0.818  3  0   1  30
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230  3 14  29.3  860.  280.  31. -179.  835.  366.  38. 127.9  37.6 127.9  33.6 53 11  0  0  0  0  0  0.818  3  0  1  30
230  3 14  29.3  860.  280.  31. -179.  835.  366.  33. 128.2  33.9 128.2  31.1 53 11  0  0  0  0  0  0.818  3  0  1  30
230  3 14  29.3  860.  280.  31. -179.  828.  366.  31. 122.4  33.6 122.4  27.6 53 11  0  0  0  0  0  0.818  3  0  1  30
230  3 14  29.3  860.  280.  31. -179.  834.  366.  46. 108.4  45.8 108.4 100.4 53 11  0  0  0  0  0  0.818  3  0  1  30
230  3 14  29.3  860.  280.  31. -179.  847.  366.  46. 128.8  46.2 128.8  73.8 53 11  0  0  0  0  0  0.818  3  0  1  30
230  3 14  29.3  860.  280.  31. -179.  841.  366.  32. 136.7  33.3 136.7  52.8 53 11  0  0  0  0  0  0.818  3  0  1  30
230  3 14  29.3  860.  280.  31. -179.  814.  365.  16. 136.7  33.3 100.8  16.6  4  2  0  0  0  0  0  0.818  3  0  1  30
231 14 13  15.7 1051.  523.  21. -271. 1054.  539.   0.  42.4  20.6  42.4   0.0 -1 18  0  0  0  0  0  0.989  4  0  2   0
232 12 18   2.4  926. 1790.   9.  202. 1088. 1852.   0. 126.9  27.3 126.9   0.0 -1  0  0  0  0  0  0  0.052  3  0 14   0
233  3 14  49.4  623.  325.  15.   85.  625.  334.  14.  36.7  15.2  36.7   8.4 29  7  0  0  0  0  0  2.035  4  0  1  31
233  3 14  49.4  623.  325.  15.   85.  642.  323.   0.  68.5  15.2  68.5   0.0 -1  7  0  0  0  0  0  2.035  4  0  1  31
234  3 14  56.5  639.  137.  18.   18.  628.  146.   0.  31.2  18.3  31.2   0.0 -1  0  0  0  0  0  0 11.555  4  0  3   0
235  3 14  42.0  606.  846.  13.  247.  733.  831.   0. 113.9  17.0 113.9   0.0 -1  0  0  0  0  0  0  1.556  3  0  8   0
236 26  9  21.1  388. -165.  11.  175.  409. -163.   0.  50.5  11.2  50.5   0.0 -1  0  0  0  0  0  0  2.079  4  0  4   0
237  1  6 405.6  709.   23.  20.  -81.  688.   31.   0.  44.6  19.9  44.6   0.0 -1  0  0  0  0  0  0  0.094  4  0  5   0
238  3 14  71.0 1063. 1690.  15.   41. 1046. 1692.   0.  34.6  14.7  34.6   0.0 -1  0  0  0  0  0  0  0.944  4  0 14   0
239 26  8  35.2  376. -183.   9.  182.  385. -181.   0.  32.3   9.3  32.3   0.0 -1  0  0  0  0  0  0  9.408  4  0  4   0
240 25  1   2.8  415.  114.  11.  227.  415.  112.   0.  26.5  10.5  26.5   0.0 -1  0  0  0  0  0  0  0.383  4  0  3   0
241  3 10  48.0  966. 1310.  25.   29.  966. 1310.  24.   5.1  24.5   5.1   0.0  0 -1  0  0  0  0  0  0.0    4  0  8   0
242  3 14  53.5  430.  301.  25.  264.  575.  230.   0.  94.3  24.7  92.4   0.0 -1  0  0  0  0  0  0  1.454  3  0  1   0
243  3 14  33.5  984.  557.  10. -197.  989.  578.   0.  87.8   9.0  87.8   0.0 -1 18  0  0  0  0  0  6.015  5  0  2   0
244 26  8  28.2  459. -229.  13.   89.  472. -222.   0.  40.5  12.4  40.5   0.0 -1  0  0  0  0  0  0 38.658  4  0  4   0
245  8  7   4.0  690.  254.  15.    1.  692.  254.   0.  30.5  14.6  30.5   0.0 -1  0  0  0  0  0  0  2.338  4  0  1   0
246  1  6 320.1  955. 1012.  21.  -43.  987. 1052.   0.  75.4  20.5  75.4   0.0 -1  0  0  0  0  0  0  0.276  4  0  8   0
247 25  1   1.1 1042.  956.  12. -142. 1042.  956.  12.   6.0  11.7   6.0   0.0  0 -1  0  0  0  0  0  0.0    4  0  8   0
248  3 14  56.9  962.  712.  15. -133.  909.  769.   0.  87.5  15.0  87.5   0.0 -1  0  0  0  0  0  0  0.919  4  0  2   0
249 26  9  43.3  564.    9.   6.   54.  579.   20.   0.  52.3   6.3  52.3   0.0 -1  0  0  0  0  0  0  2.956  4  0  4   0
250 14 12  44.6 1050.  769.  25. -202. 1038.  769.   0.  42.5  24.7  42.5   0.0 -1  0  0  0  0  0  0  0.240  4  0  8   0
251 26  8  24.6  493. -248.   9.   50.  503. -241.   0.  38.1   9.2  38.1   0.0 -1  0  0  0  0  0  0  9.486  4  0  4   0
252  3 14  32.9  646.  228.  10.   36.  629.  222.   0.  39.7   9.8  39.7   0.0 -1  0  0  0  0  0  0 13.119  4  0  1   0
253  3 14  56.5  850.  240.   9. -156.  836.  305.   0. 116.8   8.4 116.8   0.0 -1 11  0  0  0  0  0  2.847  4  0  1   0
254  3 14  64.8  614.   61.  12.   20.  690.  130.   9. 136.0  12.6 136.0  36.9 11  4  *  *  *  *  *  3.107  3  0  3  32
254  3 14  64.8  664.  105.  11.   20.  689.  130.   9. 130.9  10.7 130.9  30.0 11  4  0  0  0  0  0  0.311  3  0  3  32
254  3 14  64.8  664.  105.  11.   20.  691.  130.   8. 135.6  10.6 135.6  20.1 11  4  0  0  0  0  0  0.311  3  0  3  32
254  3 14  64.8  664.  105.  11.   20.  689.  130.   8. 122.5  10.7 122.5  49.9 11  4  0  0  0  0  0  0.311  3  0  3  32
254  3 14  64.8  664.  105.  11.   20.  691.  130.   8. 119.7  10.7 119.7  59.2 11  4  0  0  0  0  0  0.311  3  0  3  32
254  3 14  64.8  664.  105.  11.   20.  690.  130.   8. 119.9  10.7 119.9  76.5 11  4  0  0  0  0  0  0.311  3  0  3  32
254  3 14  64.8  664.  105.  11.   20.  689.  130.   9. 132.2  10.7 132.2  18.0 11  4  0  0  0  0  0  0.311  3  0  3  32
254  3 14  64.8  664.  105.  11.   20.  690.  130.   9. 137.3  10.7 137.3  22.7 11  4  0  0  0  0  0  0.311  3  0  3  32
254  3 14  64.8  664.  105.  11.   20.  692.  130.   9. 133.6  10.8 133.6  40.9 11  4  0  0  0  0  0  0.311  3  0  3  32
254  3 14  64.8  664.  105.  11.   20.  689.  130.   9. 126.6  10.8 126.6  46.8 11  4  0  0  0  0  0  0.311  3  0  3  32
254  3 14  64.8  664.  105.  11.   20.  692.  130.   9. 130.4  10.8 130.4  53.6 11  4  0  0  0  0  0  0.311  3  0  3  32
254  3 14  64.8  664.  105.  11.   20.  697.  130.   8. 130.4  10.8 119.4  11.9 11  4  0  0  0  0  0  0.311  3  0  3  32
255 26  8  41.8  565.   27.  11.   58.  576.   34.   0.  39.9  10.9  39.9   0.0 -1  0  0  0  0  0  0  8.462  4  0  4   0
256 26  9  28.5  508. -463.  29.  -23.  579. -392.   0. 110.1  29.4 110.1   0.0 -1  0  0  0  0  0  0  1.201  4  0 12   0
257 26  8  37.1  372. -625.  26.   62.  404. -607.   0.  61.1  25.5  61.1   0.0 -1  0  0  0  0  0  0 13.125  4  0 12   0
258 26  8  43.0  500.   13.  13.  116.  514.   18.   0.  40.7  12.8  40.7   0.0 -1  0  0  0  0  0  0  7.574  4  0  4   0
259 25  1   1.2  522. -879.  28. -152.  532. -842.   0.  61.6  28.0  61.6   0.0 -1  0  0  0  0  0  0  0.456  4  0 12   0
260  3 15  28.0  757. 1427.  24.  262.  759. 1429.   0.  38.4  23.9  38.4   0.0 -1  0  0  0  0  0  0  4.306  4  0  8   0
261  3 17   5.8 1126. 1685.  19.  -20. 1133. 1693.   0.  37.1  18.5  37.1   0.0 -1  0  0  0  0  0  0  0.229  4  0 14   0
262 26  9  31.7  652.  -79.   6.  -55.  664.  -60.   0.  59.0   6.3  59.0   0.0 -1  0  0  0  0  0  0  0.594  4  0  4   0
263 26  8  34.5  321. -134.   5.  248.  323. -135.   0.  20.2   5.0  20.2   0.0 -1  0  0  0  0  0  0 13.338  4  0  4   0
264  3 15  38.7 1036. 1283.  11.  -45. 1036. 1283.  11.   2.4  10.5   2.4   0.0  0 -1  0  0  0  0  0  0.0    4  0  8   0
265 14 12  56.6 1240. 1401.  17. -208. 1246. 1417.   0.  53.8  17.0  53.8   0.0 -1  0  0  0  0  0  0  0.623  5  0  8   0
266  3 15  31.7  764.  989.   9.  134.  767.  988.   0.  24.1   8.4  24.1   0.0 -1  0  0  0  0  0  0  0.828  4  0  8   0
267 26  8  26.0  610.  -26.   9.   -0.  619.  -18.   0.  37.5   8.7  37.5   0.0 -1  0  0  0  0  0  0  9.814  4  0  4   0
268 26  8  40.4  273. -294.   8.  249.  278. -296.   0.  25.1   7.4  25.1   0.0 -1  0  0  0  0  0  0 10.769  4  0  4   0
269  3 14  31.3  948.  214.  13. -258.  919.  220.   0.  68.8  12.5  68.8   0.0 -1 26  0  0  0  0  0  2.295  4  0  1   0
270 26  9  25.9  430.    5.  13.  182.  454.    7.   0.  53.5  12.5  53.5   0.0 -1  0  0  0  0  0  0  1.924  4  0  4   0
271 26  9  25.7  424.-1242.  33. -160.  469.-1125.   0. 122.0  32.8 122.0   0.0 -1  0  0  0  0  0  0  0.194  4  0 12   0
272 26  9  45.4  408. -203.  12.  145.  435. -195.   0.  58.8  12.2  58.8   0.0 -1  0  0  0  0  0  0  1.961  4  0  4   0
273 26  8  36.2  766. -766.  28. -356.  766. -749.   0.  46.8  27.6  46.8   0.0 -1  0  0  0  0  0  0 10.850  5  0 12   0
274 26  8  26.4  463.   -4.  13.  147.  477.   -0.   0.  39.7  13.2  39.7   0.0 -1  0  0  0  0  0  0  7.413  4  0  4   0
275  3 14  26.3  758.  275.   9.  -59.  767.  289.   7.  74.4   8.5  74.4  23.2 -4  2  0  0  0  0  0  2.831  4  0  1  33
275  3 14  26.3  758.  275.   9.  -59.  786.  279.   0.  74.4   8.5  60.5   0.0 -1 11  0  0  0  0  0  2.831  4  0  1  33
276  3 14  48.4  477.  270.  16.  211.  620.  267.   0. 107.2  23.2 107.2   0.0 -1  0  0  0  0  0  0  1.996  3  0  1   0
277 26  9  22.2  438. -119.   9.  140.  459. -110.   0.  54.9   9.1  54.9   0.0 -1  0  0  0  0  0  0  0.476  4  0  4   0
278 14 13  13.4 1007.   54.  22. -359. 1008.   64.   0.  38.4  21.4  38.4   0.0 -1 26  0  0  0  0  0  2.235  4  0  5   0
279 14 12  77.1 1080. 1666.  20.   19. 1073. 1665.   0.  35.3  19.5  35.3   0.0 -1  0  0  0  0  0  0  0.588  4  0 14   0
280  1  6 844.5  750. 1176.  17.  199.  777. 1176.   0.  49.6  17.1  49.6   0.0 -1  0  0  0  0  0  0  0.062  4  0  8   0
281 25  1   3.6  935.  754.   8.  -96.  930.  756.   0.  25.0   7.7  25.0   0.0 -1  0  0  0  0  0  0  0.467  4  0  8   0
282 26  8  25.9  852. -341.  15. -320.  851. -330.   0.  37.0  14.7  37.0   0.0 -1  0  0  0  0  0  0  3.227  5  0  5   0
283 26  9  44.8  276. -979.  30.   56.  355. -932.   0. 102.4  30.2 102.4   0.0 -1  0  0  0  0  0  0  1.138  4  0 12   0
284  3 14  53.1 1026. 1232.  16.  -50. 1027. 1232.  15.  22.2  15.2  22.2   0.0  0 -1  0  0  0  0  0  0.0    5  0  8   0
```

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285  1 [86].0  860.   -83.  10.  -256.  847.   -70.   0.  46.5   9.6  46.[ ]  0.0  -1  0 0 0 0 0 0  0.148  4 0  5   0
286  3 14  28.1  742.   918.  19.  136.  737.   898.   0.  40.3  18.4  40.[ ]  0.0  -1  0 0 0 0 0 0  6.225  4 0  8   0
287 26  8  28.7  351.  -266.   9.  182.  359.  -265.   0.  30.5   8.4  30.5   0.0  -1  0 0 0 0 0 0 10.025  4 0  4   0
288  3 14  47.8  881.  1722.  19.  225.  948.  1697.   0.  91.7  18.6  91.6   0.0  -1  0 0 0 0 0 0  0.403  4 0 14   0
289 14 12  74.6  975.  1421.  18.   52.  982.  1419.   0.  29.7  17.6  29.7   0.0  -1  0 0 9 0 0 0  3.058  4 0  8   0
290  3 15  34.1 1178.   632.  11. -363. 1178.   634.   0.  27.5  10.6  27.5   0.0  -1  0 0 0 0 0 0  1.565  5 0  2   0
291  3 14  25.7  363.   119.  23.  278.  424.   132.   0.  70.8  23.4  70.8   0.0  -1  0 0 0 0 0 0  1.941  4 0  3   0
292 26  9  22.4  598.  -285.   6.  -60.  609.  -266.   0.  58.5   6.3  58.5   0.0  -1  0 0 0 0 0 0  0.596  4 0  4   0
293  3 14  40.0  994.  1444.  21.   40.  955.  1432.   0.  57.7  20.6  57.7   0.0  -1  0 0 0 0 0 0  1.150  4 0  8   0
294  8  7   4.0  434.   200.  13.  232.  434.   200.   0.  28.6  13.3  28.6   0.0  -1  0 0 0 0 0 0  0.503  4 0  1   0
295 26  8  27.1  576.  -187.   9.  -12.  584.  -178.   0.  39.0   8.8  39.0   0.0  -1  0 0 0 0 0 0  9.758  4 0  4   0
296  3 14  61.7  854.  -269.   9. -302.  789.   -79.   0. 146.2  18.9 146.0   0.0  -1  0 0 0 0 0 0  1.638  3 0  5   0
297  3 14  26.6  969.   735.  17. -133. 1048.   958.   0. 173.5  18.4 173.2   0.0  -1  0 0 0 0 0 0  8.461  3 0  2   0
298 26  8  32.8  356.   -55.  13.  236.  365.   -56.   0.  33.8  12.7  33.8   0.0  -1  0 0 0 0 0 0  7.582  4 0  4   0
299 25  1   4.0  958.   -67.  11. -346.  958.   -62.   0.  31.7  10.4  31.7   0.0  -1  0 0 0 0 0 0  1.925  5 0  5   0
300  3 15  35.7  972.  1890.  24.  185.  972.  1890.  23.   3.3  23.4   3.3   0.0   0 -1  0 0 0 0 0  0.0    4 0 14   0
301  3 14  64.0  705.   -85.  18. -107.  909.   280.  37. 204.1  37.8 204.1  50.2131 24  * * * * *  1.034  3 0  5  34
301  3 14  64.0  904.   257.  37. -107.  909.   280.  37. 205.2  37.1 205.2  88.7131 24  0 0 0 0 1  0.103  3 0  5  34
301  3 14  64.0  904.   257.  37. -107.  909.   280.  37. 204.3  37.3 204.3  49.9131 24  0 0 0 0 1  0.103  3 0  5  34
301  3 14  64.0  904.   257.  37. -107.  909.   280.  37. 203.6  37.1 203.6  48.6131 24  0 0 0 0 1  0.103  3 0  5  34
301  3 14  64.0  904.   257.  37. -107.  909.   280.  37. 203.9  37.2 203.9 140.6131 24  0 0 0 0 1  0.103  3 0  5  34
301  3 14  64.0  904.   257.  37. -107.  909.   280.  37. 205.4  37.1 205.4  68.0131 24  0 0 0 0 1  0.103  3 0  5  34
301  3 14  64.0  904.   257.  37. -107.  909.   280.  37. 204.0  37.3 204.0  49.5131 24  0 0 0 0 1  0.103  3 0  5  34
301  3 14  64.0  904.   257.  37. -107.  909.   280.  37. 203.5  37.1 203.5  91.9131 24  0 0 0 0 1  0.103  3 0  5  34
301  3 14  64.0  904.   257.  37. -107.  909.   280.  37. 203.9  37.3 203.9  53.4131 24  0 0 0 0 1  0.103  3 0  5  34
301  3 14  64.0  904.   257.  37. -107.  909.   280.  37. 203.8  37.2 203.8  51.6131 24  0 0 0 0 1  0.103  3 0  5  34
301  3 14  64.0  904.   257.  37. -107.  909.   280.  37. 203.6  37.2 203.6  50.7131 24  0 0 0 0 1  0.103  3 0  5  34
301  3 14  64.0  904.   257.  37. -107.  985.   280.  20. 203.6  37.2 191.1  62.3 41   9  0 0 0 0 1  0.103  3 0  5  34
302  3 14  22.7 1009.   883.  15. -131. 1103.  1106.   0. 176.9  15.9 176.1   0.0  -1  0 0 0 0 0 0 14.217  3 0  8   0
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307 25  1   3.6  487. -1353.  28. -250.  472. -1300.   0.  72.5  27.7  72.5   0.0  -1  0 0 0 0 0 0  0.470  4 0 12   0
308 26  8  43.7  325.  -209.  14.  223.  336.  -211.   0.  36.1  14.2  36.1   0.0  -1  0 0 0 0 0 0  7.005  4 0  4   0
309 14 12  35.0  871.  1414.  13.  150.  870.  1411.   0.  27.7  12.8  27.7   0.0  -1  0 0 0 0 0 0  0.374  4 0  4   0
310 14 12  31.7 1040.  1351.  19.  -31. 1061.  1358.   0.  44.0  18.8  44.0   0.0  -1  0 0 0 0 0 0  0.584  4 0  8   0
311 26  9  28.8  613.   -58.   6.  -12.  625.   -45.   0.  53.2   5.5  53.2   0.0  -1  0 0 0 0 0 0  0.638  4 0  4   0
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313 25  1   1.5 1031.   248.   6. -328. 1030.   251.   0.  21.4   5.7  21.4   0.0  -1 26 0 0 0 0 0  0.555  4 0  1   0
314  3 16  11.5 1212.  1887.  11.  -46. 1212.  1887.  11.   4.1  10.8   4.1   0.0   0 -1  0 0 0 0 0  0.0    5 0 14   0
315 26  9  33.8  499.   -79.  11.   92.  525.   -67.   0.  61.7  11.2  61.7   0.0  -1  0 0 0 0 0 0  0.415  4 0  4   0
316  3 14  25.5  376.   148.  13.  273.  393.   125.   0.  54.4  13.2  54.1   0.0  -1  0 0 0 0 0 0  2.842  4 0  3   0
317 26  9  21.4  351.  -231.  14.  192.  378.  -229.   0.  57.1  14.1  57.1   0.0  -1  0 0 0 0 0 0  0.353  4 0  4   0
318  3 14  31.5  827.   969.  19.   68.  894.  1018.   0. 105.1  19.3 105.1   0.0  -1  0 0 0 0 0 0 12.031  4 0  8   0
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322 26  9  34.8  471.  -108.  15.  111.  504.   -93.   0.  68.3  14.7  68.3   0.0  -1  0 0 0 0 0 0  0.343  4 0  4   0
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327 25  1   1.1  915.   680.   8.  -97.  916.   695.   0.  41.0   8.0  41.0   0.0  -1  0 0 0 0 0 0  2.276  4 0  2   0
328 25  1   1.3  488.   116.  14.  156.  496.   116.   0.  31.4  13.5  31.4   0.0  -1  0 0 0 0 0 0  0.322  4 0  3   0
329  3 15  29.1 1130.  1362.  18. -113. 1124.  1364.   0.  35.6  17.8  35.6   0.0  -1  0 0 0 0 0 0  0.530  5 0  8   0
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332 26  8  26.7  838.  -116.   6. -244.  837.  -107.   0.  32.7   5.7  32.7   0.0  -1  0 0 0 0 0 0  5.916  4 0  5   0
333  3 14  39.9  929.    75.  23. -278.  909.   100.  27.  81.9  27.2  81.9  17.2140 26  0 0 0 0 0  0.871  3 0  5  36
333  3 14  39.9  929.    75.  23. -278.  898.   100.  30.  81.9  29.5  81.9  15.6140 26  0 0 0 0 0  0.871  3 0  5  37
334 26  9  21.6  298.  -497.  27.  169.  358.  -489.   0.  81.5  27.0  81.5   0.0  -1  0 0 0 0 0 0  0.288  4 0 12   0
335  3 14  25.2  661.   265.  23.   32.  685.   281.  22.  91.2  22.9  91.2  22.0 34   8  * * * * *  1.537  3 0  1  38
335  3 14  25.2  661.   265.  23.   32.  685.   329.  18.  94.6  22.9  94.6  56.5 34   8  0 0 0 0 0  0.154  3 0  1  38
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335  3 14  25.2  661.   265.  23.   32.  685.   281.  12.  64.7  22.7  64.7  44.2 34   8  0 0 0 0 0  0.154  3 0  1  38
335  3 14  25.2  661.   265.  23.   32.  663.   267.   0.  37.8  22.7  37.8   0.0  -1  0 0 0 0 0 0  0.154  3 0  1  38
335  3 14  25.2  661.   265.  23.   32.  663.   266.   0.  41.5  22.7  41.5   0.0  -1  0 0 0 0 0 0  0.154  3 0  1  38
335  3 14  25.2  661.   265.  23.   32.  676.   286.   0.  46.3  22.7  46.3   0.0  -1  0 0 0 0 0 0  0.154  3 0  1  38
335  3 14  25.2  661.   265.  23.   32.  669.   276.   0.  42.3  22.7  42.3   0.0  -1  0 0 0 0 0 0  0.154  3 0  1  38
335  3 14  25.2  661.   265.  23.   32.  664.   274.   0.  44.1  22.7  44.1   0.0  -1  0 0 0 0 0 0  0.154  3 0  1  38
335  3 14  25.2  661.   265.  23.   32.  661.   266.   0.  35.7  22.7  35.7   0.0  -1  0 0 0 0 0 0  0.154  3 0  1  38
335  3 14  25.2  661.   265.  23.   32.  657.   271.   0.  39.6  22.7  39.6   0.0  -1  0 0 0 0 0 0  0.154  3 0  1  38
```

```
336 14      31.4  954. 1670.  13.  142.  960. 1668.   0.  31.3 12.4 31.    0.0 -1  0  0  0  0  0  0  0.788  4  0 14   0
337  1  6 521.1  922. 1094.  25.   11.  923. 1094.  25.   2.1 24.8  2.1   0.0  0 -1  0  0  0  0  0  0.0    4  0  8   0
338  8  7   4.0  834.  222.  13. -146.  835.  224.   0.  29.3 13.3 29.3   0.0 -1  0  0  0  0  0  0  0.503  4  0  1   0
339 25  1   2.7 1100.  510.  15. -321. 1096.  514.   0.  35.2 14.4 35.2   0.0 -1 18  0  0  0  0  0  0.307  5  0  2   0
340 25  1   3.6  524.-1484.  34. -323.  523.-1450.   0.  55.6 34.3 55.6   0.0 -1  0  0  0  0  0  0  0.309  4  0 12   0
341 25  1   3.8 1091.  843.  11. -221. 1082.  853.   4.  36.4 10.6 36.4   0.0  0 -1  0  0  0  0  0  0.0    4  0  8   0
342 26  9  35.4  440.   41.   6.  182.  452.   44.   0.  40.1  6.0 40.1   0.0 -1  0  0  0  0  0  0  0.609  4  0  4   0
343  3 14  76.7  600.   87.   9.   41.  635.   83.   0.  80.1  8.4 80.1   0.0 -1  0  0  0  0  0  0 18.256  4  0  3   0
344  3 15  36.5  993. 1014.  24.  -79.  993. 1014.  24.   3.2 23.9  3.2   0.0  0 -1  0  0  0  0  0  0.0    4  0  8   0
345 25  1   2.2  694. 1149.  12.  246.  706. 1147.   0.  34.0 12.1 34.0   0.0 -1  0  0  0  0  0  0  0.349  4  0  8   0
346 26  9  37.8  596. -290.  13.  -60.  618. -256.   0.  77.1 12.5 77.1   0.0 -1  0  0  0  0  0  0  1.932  4  0  4   0
347 25  1   3.8  823. 1274.   9.  156.  833. 1272.   0.  32.7  8.5 32.7   0.0 -1  0  0  0  0  0  0  0.440  4  0  8   0
348 14 11  39.2 1168. 1525.  20. -105. 1151. 1528.   0.  41.4 19.5 41.4   0.0 -1  4  0  0  0  0  0  0.061  4  0 14   0
349  3 14  63.8  696.  185.  12.  -24.  708.  222.   0.  67.2 12.0 67.2   0.0 -1  4  0  0  0  0  0  6.757  4  0  5   0
350  3 14  49.6  961.   89.  15. -305.  956.  100.  17.  45.9 17.2 45.9  13.4140 26  0  0  0  0  0  1.189  3  0  5  39
350  3 14  49.6  961.   89.  15. -305.  944.  100.  10.  54.9 17.4 54.9   2.0140 26  0  0  0  0  0  1.189  3  0  5  40
351 26  9  24.7 1249. 1482.  10. -194. 1253. 1517.   0.  74.8  9.8 74.8   0.0 -1  0  0  0  0  0  0  0.491  4  0  4   0
352  3 14  67.4 1093. 1883.  13.   66. 1112. 1894.  13.  76.8 13.1 76.8   0.0  0 -1  0  0  0  0  0  0.0    3  0 14   0
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354 26  8  47.3  595. -275.   9.  -54.  602. -263.   0.  40.7  9.2 40.7   0.0 -1  0  0  0  0  0  0  9.427  4  0  4   0
355  3 14  62.9  910.  223.  18. -219.  913.  280.  45. 115.6 44.9 115.6  67.6131 24  *  *  *  *  *  1.817  3  0  1  41
355  3 14  62.9  913.  276.  43. -219.  913.  280.  45. 113.5 44.8 113.5  47.0131 24  0  0  0  0  0  0.182  3  0  1  41
355  3 14  62.9  913.  276.  43. -219.  913.  280.  45. 113.6 44.9 113.6  64.1131 24  0  0  0  0  0  0.182  3  0  1  41
355  3 14  62.9  913.  276.  43. -219.  913.  280.  45. 113.6 44.8 113.6  61.9131 24  0  0  0  0  0  0.182  3  0  1  41
355  3 14  62.9  913.  276.  43. -219.  913.  280.  45. 116.9 44.9 116.9  24.8131 24  0  0  0  0  0  0.182  3  0  1  41
355  3 14  62.9  913.  276.  43. -219.  913.  280.  45. 112.3 44.9 112.3  85.8131 24  0  0  0  0  0  0.182  3  0  1  41
355  3 14  62.9  913.  276.  43. -219.  913.  280.  45. 113.9 44.9 113.9  55.6131 24  0  0  0  0  0  0.182  3  0  1  41
355  3 14  62.9  913.  276.  43. -219.  913.  280.  45. 114.3 44.8 114.3  70.9131 24  0  0  0  0  0  0.182  3  0  1  41
355  3 14  62.9  913.  276.  43. -219.  913.  280.  45. 117.0 44.8 117.0  37.2131 24  0  0  0  0  0  0.182  3  0  1  41
355  3 14  62.9  913.  276.  43. -219.  913.  280.  45. 112.7 44.8 112.7  95.6131 24  0  0  0  0  0  0.182  3  0  1  41
355  3 14  62.9  913.  276.  43. -219.  913.  280.  45. 116.0 44.7 116.0  24.3131 24  0  0  0  0  0  0.182  3  0  1  41
355  3 14  62.9  913.  276.  43. -219.  918.  280.  80. 116.0 79.6 102.7  16.8131 24  0  0  0  0  0  0.182  3  0  1  41
356  3 14  33.2  942.  -44.  11. -324.  969.   82.   0.  91.8 14.2 91.8   0.0 -1 26  0  0  0  0  0  1.450  3  0  5   0
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360 26  8  43.4  450.-1066.  31. -135.  474.-1021.   0.  70.9 31.2 70.9   0.0 -1  0  0  0  0  0  0 42.672  4  0 12   0
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362 25  1   2.5  244. -919.  35.  104.  263. -913.   0.  49.4 34.5 49.4   0.0 -1  0  0  0  0  0  0  1.524  4  0 12   0
363  3 15  24.1 1396. 1589.  22. -306. 1396. 1589.  22.   3.4 22.3  3.4   0.0  0 -1  0  0  0  0  0  0.0    4  0  7   0
364 26  8  45.3 1120. 1607.  10.  -36. 1120. 1607.  10.   5.5  9.9  5.5   0.0  0 -1  0  0  0  0  0  0.0    4  0 14   0
365  3 14  39.4  636.  274.  14.   59.  685.  300.   7. 113.1 14.2 113.1  51.2 34  8  *  *  *  *  * 10.608  4  0  1  42
365  3 14  39.4  636.  274.  14.   59.  644.  272.   0.  42.7 14.2 42.7   0.0 -1  0  0  0  0  0  0  1.061  4  0  1  42
365  3 14  39.4  636.  274.  14.   59.  685.  306.   9.  95.0 14.3 95.0  31.7 34  8  0  0  0  0  0  1.061  4  0  1  42
365  3 14  39.4  636.  274.  14.   59.  641.  285.   0.  50.3 13.9 50.3   0.0 -1  0  0  0  0  0  0  1.061  4  0  1  42
365  3 14  39.4  636.  274.  14.   59.  667.  293.   0.  61.1 14.2 61.1   0.0 -1  0  0  0  0  0  0  1.061  4  0  1  42
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369  3 14  58.9 1160. 2049.  21.   48. 1111. 2026.   0.  54.1 21.0 53.6   0.0 -1  0  0  0  0  0  0  0.370  4  0 14   0
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371  1  6 142.8 1003.   22.  13. -364. 1002.   33.   0.  33.3 12.4 33.3   0.0 -1 26  0  0  0  0  0  0.129  4  0  5   0
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372  3 14  46.2  769.  268.  56. -217.  769.  290.  56. 168.5 56.1 167.8  51.4  4  2  0  0  0  0  0  0.121  3  0  5  43
372  3 14  46.2  769.  268.  56. -217.  768.  290.  56. 169.3 56.3 168.8 147.8  4  2  0  0  0  0  0  0.121  3  0  5  43
372  3 14  46.2  769.  268.  56. -217.  769.  290.  56. 168.4 56.3 167.7  42.2  4  2  0  0  0  0  0  0.121  3  0  5  43
372  3 14  46.2  769.  268.  56. -217.  769.  290.  56. 173.2 56.2 173.2 151.1  4  2  0  0  0  0  0  0.121  3  0  5  43
372  3 14  46.2  769.  268.  56. -217.  768.  290.  56. 168.6 56.3 167.9 113.2  4  2  0  0  0  0  0  0.121  3  0  5  43
372  3 14  46.2  769.  268.  56. -217.  768.  290.  56. 172.0 56.3 172.0 141.8  4  2  0  0  0  0  0  0.121  3  0  5  43
372  3 14  46.2  769.  268.  56. -217.  768.  290.  56. 167.9 56.3 167.9  93.4  4  2  0  0  0  0  0  0.121  3  0  5  43
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372  3 14  46.2  769.  268.  56. -217.  768.  290.  56. 169.1 56.3 168.5  63.0  4  2  0  0  0  0  0  0.121  3  0  5  43
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376 26  8  27.0  341. -134.  10.  229.  347. -136.   0.  29.1  9.6 29.1   0.0 -1  0  0  0  0  0  0  9.221  4  0  4   0
```

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377 1●    2.5  998. 1501.  8.   52.  998. 1501.  8.   2.3   7.7  2●.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
378 3●   54.9  668.  236. 22.   17.  691.  280. 28. 101.5  28.2 101● 9.1 35  8  *  *  *  *  *   1.593  3  0  1  44
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387 26  9 45.2 1219. 1605.  9. -132. 1219. 1606.  9.  12.2   8.8  12.2 0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
388 3 16  6.5  856.  724. 24.  -27.  853.  726.  0.  38.9  24.3  38.9 0.0 -1  0  0  0  0  0  0   0.070  4  0  2   0
389 3 14 36.1 1139.  629. 15. -326. 1138.  679.  0.  84.5  14.5  84.5 0.0 -1  0  0  0  0  0  0   4.671  5  0  2   0
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399 26  9 35.5  456. -306.  8.   70.  474. -294.  0.  55.8   7.4  55.8 0.0 -1  0  0  0  0  0  0   0.541  4  0  4   0
400 1  6 335.9  784. -166. 19. -206.  805. -100.  0.  76.7  19.1  76.7 0.0 -1  0  0  0  0  0  0   0.489  4  0  5   0
401 3 15 28.0 1107. 1341. 18.  -97. 1107. 1341. 18.   4.1  17.7   4.1 0.0  0 -1  0  0  0  0  0   0.0    4  0  8   0
402 3 14 72.8  723. -201. 21. -157.  798.  -71.  0. 158.8  20.7 158.0 0.0 -1  0  0  0  0  0  0   4.740  4  0  5   0
403 3 14 57.3  483.  258. 16.  201.  651.  250.  0. 132.0  15.6 132.0 0.0 -1  0  0  0  0  0  0   2.007  3  0  1   0
404 3 14 79.9  757.  232. 11.  -69.  803.  313.  6. 139.5  10.9 139.5 0.1  4  2  *  *  *  *  *   2.500  3  0  1  45
404 3 14 79.9  795.  297.  7.  -69.  803.  313.  6. 140.3   6.3 140.3 41.9 4  2  0  0  0  0  0   0.250  3  0  1  45
404 3 14 79.9  795.  297.  7.  -69.  803.  313.  6. 140.5   6.3 140.5  8.5 4  2  0  0  0  0  0   0.250  3  0  1  45
404 3 14 79.9  795.  297.  7.  -69.  803.  312.  6. 139.7   6.3 139.7  0.1 4  2  0  0  0  0  0   0.250  3  0  1  45
404 3 14 79.9  795.  297.  7.  -69.  804.  313.  6. 140.5   6.3 140.5  9.5 4  2  0  0  0  0  0   0.250  3  0  1  45
404 3 14 79.9  795.  297.  7.  -69.  804.  313.  6. 134.0   6.3 134.0 24.5 4  2  0  0  0  0  0   0.250  3  0  1  45
404 3 14 79.9  795.  297.  7.  -69.  804.  313.  6. 140.5   6.2 140.5 17.4 4  2  0  0  0  0  0   0.250  3  0  1  45
404 3 14 79.9  795.  297.  7.  -69.  803.  312.  6. 139.4   6.2 139.4  0.1 4  2  0  0  0  0  0   0.250  3  0  1  45
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404 3 14 79.9  795.  297.  7.  -69.  804.  313.  6. 133.4   6.3 133.4 40.6 4  2  0  0  0  0  0   0.250  3  0  1  45
404 3 14 79.9  795.  297.  7.  -69.  804.  314.  6. 134.5   6.4 134.5 46.2 4  2  0  0  0  0  0   0.250  3  0  1  45
404 3 14 79.9  795.  297.  7.  -69.  832.  350.  0. 146.8   6.4 146.7 0.0 -1 11  0  0  0  0  0   0.250  3  0  1  45
405 3 15 33.6 1038. 1472. 22.    5. 1038. 1472.  0.  36.9  22.2  36.9 0.0 -1  0  0  0  0  0  0   0.444  4  0 14   0
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407 26  8 39.7  388. -984. 30.  -53.  423. -943.  0.  73.7  30.0  73.7 0.0 -1  0  0  0  0  0  0   9.181  4  0 12   0
408 26  9 22.7  594.  -40. 13.   12.  622.  -14.  0.  71.5  13.3  71.5 0.0 -1  0  0  0  0  0  0   0.370  4  0  4   0
409 26  9 35.8  481.  -33. 15.  122.  513.  -19.  0.  65.2  14.6  65.2 0.0 -1  0  0  0  0  0  0   0.345  4  0  4   0
410 3 15 38.0 1175. 1325. 24. -167. 1165. 1337.  0.  42.5  24.0  42.5 0.0 -1  0  0  0  0  0  0   0.859  4  0  8   0
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413 25  1  3.3 1545. 2038.  6. -324. 1542. 2040.  0.  22.9   6.1  22.9 0.0 -1  0  0  0  0  0  0   1.065  5  0  7   0
414 3 15 27.5  921. 1150. 23.   28.  917. 1149.  0.  37.4  22.6  37.4 0.0 -1  0  0  0  0  0  0   0.448  4  0  8   0
415 26  9 44.0  555.  -71.  9.   41.  578.  -53.  0.  64.9   9.3  64.9 0.0 -1  0  0  0  0  0  0   0.471  4  0  4   0
416 3 14 52.7  587.  730. 23.  232.  658.  757.  0. 101.1  23.0 101.1 0.0 -1  0  0  0  0  0  0   3.425  4  0  2   0
417 1  6 243.5  724.   19. 21.  -97.  698.   23.  0.  48.3  20.4  48.3 0.0 -1  0  0  0  0  0  0   0.093  4  0  5   0
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420 26  9 25.6  519.  -61. 12.   77.  547.  -46.  0.  64.1  12.1  64.1 0.0 -1  0  0  0  0  0  0   1.973  4  0  4   0
421 14 13 50.2  675.  -59. 21.  -71.  697.  -36.  0.  51.7  20.6  51.7 0.0 -1  0  0  0  0  0  0   0.460  4  0  5   0
422 3 14 31.3  918.    6. 25. -287.  902.   47.  0.  65.0  24.8  65.0 0.0 -1  0  0  0  0  0  0   0.829  4  0  5   0
423 26  9 35.0  612. -112.  8.  -25.  628.  -92.  0.  62.9   7.6  62.9 0.0 -1  0  0  0  0  0  0   0.535  4  0  4   0
424 26  9 30.6  219. -345. 11.  287.  227. -346.  0.  31.9  10.8  31.9 0.0 -1  0  0  0  0  0  0   2.136  5  0  4   0
425 26  9 27.7  406. -273.  6.  127.  419. -268.  0.  43.2   5.8  43.2 0.0 -1  0  0  0  0  0  0   0.619  4  0  4   0
426 3 15 26.6  863.  883. 17.    9.  870.  883.  0.  34.8  17.1  34.8 0.0 -1  0  0  0  0  0  0   0.546  4  0  8   0
427 3 14 65.4  821. 1066. 14.  101. 1012. 1132. 37. 163.1  37.5 163.1 0.0  0 -1  0  0  0  0  0   0.0    3  0  8   0
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```

```
430  2      36.0  595.  -738.  29. -183.  609.  -685.   0.  76.2  29.3  7       0.0 -1  0  0  0  0  0  0  48.187  4  0 12   0
431 26  9   20.0  341.   -55.  14.  251.  357.   -61.   0.  43.8  13.5  43.8    0.0 -1  0  0  0  0  0  0   1.824  4  0  4   0
432  3 14   73.9  457.   242.  17.  221.  488.   207.   0.  59.4  16.9  58.8    0.0 -1  0  0  0  0  0  0   9.488  4  0  1   0
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434 14 11   44.8  818.  1498.  19.  224.  826.  1501.   0.  35.6  18.6  35.6    0.0 -1  0  0  0  0  0  0   0.126  4  0 14   0
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436 26  9   26.6  339.  -283.  10.  189.  359.  -281.   0.  48.1  10.1  48.1    0.0 -1  0  0  0  0  0  0   2.231  4  0  4   0
437  1  6  641.1 1091. 1826.   9.   53. 1088. 1824.    0.  22.8   9.3  22.8    0.0 -1  0  0  0  0  0  0   0.105  4  0 14   0
438  3 14   38.6  653. 1128.  22.  279.  677. 1142.    0.  55.3  21.4  55.3    0.0 -1  0  0  0  0  0  0  11.159  5  0  8   0
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441 26  9   24.4  362.  -55.  10.  231.  379.  -56.    0.  44.0   9.5  44.0    0.0 -1  0  0  0  0  0  0   0.463  4  0  4   0
442  3 14   28.4  665. 1200.  17.  288.  668. 1200.    0.  32.5  16.8  32.5    0.0 -1  0  0  0  0  0  0   1.106  4  0  8   0
443  3 14   48.5  923.   -1.  16. -294.  915.   70.    0. 105.5  16.3 105.5    0.0 -1 26  0  0  0  0  0   1.123  3  0  5   0
444 26  9   27.3  598. -102.   7.  -10.  611.  -87.    0.  55.0   6.5  55.0    0.0 -1  0  0  0  0  0  0   0.584  4  0  4   0
445 14 12   24.9  853. 1563.  18.  208.  853. 1563.   18.   3.7  18.2   3.7    0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
446 12 18    1.7 1236. 1509.  11. -175. 1042. 1568.    0.  87.6  28.1  83.5    0.0 -1  0  0  0  0  0  0   0.045  3  0 14   0
447  3 14   44.1  856. -165.  19. -274.  865. -114.    0.  76.1  18.6  76.1    0.0 -1  0  0  0  0  0  0   5.104  4  0  5   0
448 25  1    1.2  926.   72.  11. -276.  917.   85.    0.  40.1  10.7  40.1    0.0 -1 26  0  0  0  0  0   0.380  4  0  5   0
449 26  8   42.9  614.  -19.   5.   -2.  619.  -14.    0.  30.5   5.2  30.5    0.0 -1  0  0  0  0  0  0  13.127  4  0  4   0
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451  3 14   28.0  838.   99.  13. -262.  824.  152.    6. 133.2  11.5 133.2    0.1 12  4  0  0  0  0  0   0.537  3  0  5  46
451  3 14   28.0  838.   99.  13. -262.  824.  147.    6. 137.2  11.4 137.2   25.3 12  4  0  0  0  0  0   0.537  3  0  5  46
451  3 14   28.0  838.   99.  13. -262.  824.  151.    5. 130.9  11.4 130.9    0.1 12  4  0  0  0  0  0   0.537  3  0  5  46
451  3 14   28.0  838.   99.  13. -262.  824.  152.    6. 130.3  11.5 130.3    0.1 12  4  0  0  0  0  0   0.537  3  0  5  46
451  3 14   28.0  838.   99.  13. -262.  824.  146.    7. 138.3  11.4 138.3    0.1 12  4  0  0  0  0  0   0.537  3  0  5  46
451  3 14   28.0  838.   99.  13. -262.  824.  144.    8. 136.1  11.5 136.1   34.3 12  4  0  0  0  0  0   0.537  3  0  5  46
451  3 14   28.0  838.   99.  13. -262.  824.  145.    8. 135.5  11.5 135.5    5.6 12  4  0  0  0  0  0   0.537  3  0  5  46
451  3 14   28.0  838.   99.  13. -262.  824.  152.    5. 129.7  11.4 129.7   43.0 12  4  0  0  0  0  0   0.537  3  0  5  46
451  3 14   28.0  838.   99.  13. -262.  824.  143.    8. 133.7  11.4 133.7    0.1 12  4  0  0  0  0  0   0.537  3  0  5  46
451  3 14   28.0  838.   99.  13. -262.  824.  143.    7. 132.7  11.4 132.7    9.1 12  4  0  0  0  0  0   0.537  3  0  5  46
451  3 14   28.0  838.   99.  13. -262.  828.  176.    0. 132.7  11.4 131.1    0.0 -1  0  0  0  0  0  0   0.537  3  0  5  46
452  3 15   21.6  666.  298.  24.   36.  659.  297.    0.  38.2  23.8  38.2    0.0 -1  0  0  0  0  0  0   0.531  4  0  1   0
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454 14 12   75.9 1070. 1837.  15.   76. 1070. 1837.   15.   4.3  15.3   4.3    0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
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456  3 14   58.2  474.  267.  18.  212.  685.  295.   13. 143.8  26.6 143.8   94.7 34  8  *  *  *  *  *   1.815  3  0  1  49
456  3 14   58.2  611.  278.  23.  212.  685.  296.   11. 151.7  21.4 151.7   62.0 34  8  0  0  0  0  0   0.182  3  0  1  49
456  3 14   58.2  611.  278.  23.  212.  685.  292.   11. 131.0  21.4 130.4   61.6 34  8  0  0  0  0  0   0.182  3  0  1  49
456  3 14   58.2  611.  278.  23.  212.  685.  295.   12. 155.5  21.4 155.5   47.0 34  8  0  0  0  0  0   0.182  3  0  1  49
456  3 14   58.2  611.  278.  23.  212.  685.  295.   14. 154.4  21.5 154.4  140.9 34  8  0  0  0  0  0   0.182  3  0  1  49
456  3 14   58.2  611.  278.  23.  212.  685.  290.   14. 135.3  21.5 135.3   41.1 34  8  0  0  0  0  0   0.182  3  0  1  49
456  3 14   58.2  611.  278.  23.  212.  685.  296.   13. 152.8  21.5 152.8  137.0 34  8  0  0  0  0  0   0.182  3  0  1  49
456  3 14   58.2  611.  278.  23.  212.  685.  291.   15. 142.1  21.5 142.1   34.4 34  8  0  0  0  0  0   0.182  3  0  1  49
456  3 14   58.2  611.  278.  23.  212.  685.  295.   14. 153.9  21.5 153.9   45.7 34  8  0  0  0  0  0   0.182  3  0  1  49
456  3 14   58.2  611.  278.  23.  212.  685.  292.   12. 131.0  21.4 130.0   84.1 34  8  0  0  0  0  0   0.182  3  0  1  49
456  3 14   58.2  611.  278.  23.  212.  685.  295.    9. 136.7  21.4 136.7   82.6 34  8  0  0  0  0  0   0.182  3  0  1  49
456  3 14   58.2  611.  278.  23.  212.  677.  305.    0. 136.7  21.4 108.8    0.0 -1  8  0  0  0  0  0   0.182  3  0  1  49
457 25  1    2.4  977.   82.   5. -323.  978.   85.    0.  20.8   5.0  20.8    0.0 -1 26  0  0  0  0  0   2.963  4  0  5   0
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462 26  9   40.5 1117. 1750.  13.    7. 1117. 1750.   13.   9.2  13.0   9.2    0.0  0 -1  0  0  0  0  0   0.0    4  0 14   0
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465  3 14   38.8  -10.-1413.  30.  210.  263.-1373.    0. 157.9  30.8 157.4    0.0 -1  0  0  0  0  0  0   9.075  3  0 11   0
466  3 16   19.1  949. 1987.  16.  234.  953. 1989.    0.  32.4  16.1  32.4    0.0 -1  0  0  0  0  0  0   0.734  4  0 14   0
467  3 15   17.6 1066. 1229.  25.  -89. 1066. 1229.   25.   3.8  24.8   3.8    0.0  0 -1  0  0  0  0  0   0.0    4  0  8   0
468  3 14   73.8 1076. 1357.  22.  -63. 1004. 1362.    0.  77.6  21.7  77.6    0.0 -1  0  0  0  0  0  0   1.108  4  0  8   0
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471  3 15   39.8  599.  266.  10.   91.  603.  272.    0.  28.7  10.0  28.7    0.0 -1  0  0  0  0  0  0   0.186  4  0  1   0
472  3 14   69.3  608.  232.  15.   74.  689.  280.   27. 129.5  27.2 129.5    6.9 35  8  *  *  *  *  *   2.049  3  0  1  50
472  3 14   69.3  658.  261.  24.   74.  689.  280.   27. 130.0  27.1 130.0   21.1 35  8  0  0  0  0  0   0.205  3  0  1  50
472  3 14   69.3  658.  261.  24.   74.  688.  280.   27. 129.3  26.8 129.3    0.1 35  8  0  0  0  0  0   0.205  3  0  1  50
472  3 14   69.3  658.  261.  24.   74.  690.  280.   25. 120.3  25.6 120.3   26.5 35  8  0  0  0  0  0   0.205  3  0  1  50
472  3 14   69.3  658.  261.  24.   74.  689.  280.   27. 108.6  26.6 108.4   73.0 35  8  0  0  0  0  0   0.205  3  0  1  50
472  3 14   69.3  658.  261.  24.   74.  690.  280.   26. 126.4  25.6 126.4   16.6 35  8  0  0  0  0  0   0.205  3  0  1  50
472  3 14   69.3  658.  261.  24.   74.  688.  280.   26. 110.5  26.3 110.5   39.1 35  8  0  0  0  0  0   0.205  3  0  1  50
472  3 14   69.3  658.  261.  24.   74.  688.  280.   27. 129.1  27.4 129.1   15.6 35  8  0  0  0  0  0   0.205  3  0  1  50
472  3 14   69.3  658.  261.  24.   74.  687.  280.   28. 126.3  27.5 126.3   31.2 35  8  0  0  0  0  0   0.205  3  0  1  50
```

```
472  [●] 69.3  658.  261.  24.   74.  687.  280.  26. 112.1 26.2 11[●]5.1 35  8  0  0  0  0  0  0.205  3  0  1  50
472      69.3  658.  261.  24.   74.  692.  280.  27. 116.7 26.9 118[●]2.8 35  8  0  0  0  0  0  0.205  3  0  1  50
472  3 14 69.3 658.  261.  24.   74.  702.  280.  27. 116.7 26.9 106.5  2.0 35  8  0  0  0  0  0  0.205  3  0  1  50
473  3 16 17.8 1173. 1967. 24.   13. 1173. 1967. 24.   3.6 24.1   3.6  0.0  0 -1  0  0  0  0  0  0.0    4  0 14   0
474 26  8 28.8  692. -145.  12. -111.  700. -127.   0.  47.7 11.7  47.7  0.0 -1  0  0  0  0  0  0 19.031  4  0  5   0
475 14 11 56.1 1237. 1754.  10. -107. 1237. 1755.  10.   3.4 10.0   3.4  0.0  0 -1  0  0  0  0  0  0.0    4  0 14   0
476  3 15 32.5  450.  326.  14.  251.  455.  326.   0.  28.8 13.5  28.8  0.0 -1 10  0  0  0  0  0  0.156  4  0  1   0
477  3 17  6.1 1147. 1928.  23.   28. 1156. 1932.   0.  42.2 23.2  42.2  0.0 -1  0  0  0  0  0  0  0.039  4  0 14   0
478 26  9 28.8  425.   -1.  12.  185.  448.    1.   0.  53.0 12.0  53.0  0.0 -1  0  0  0  0  0  0  1.979  4  0  4   0
479  3 14 79.6  923. -121.  25. -327.  848.   35.   0. 119.8 31.7 119.8  0.0 -1  0  0  0  0  0  0  0.829  3  0  5   0
480  1  6 706.1 693. -105.  14. -102.  718.  -78.   0.  68.2 13.8  68.2  0.0 -1  0  0  0  0  0  0  0.603  4  0  5   0
481 14 13 54.5  874.   62.  14. -229.  861.   82.   0.  46.0 14.4  46.0  0.0 -1  0  0  0  0  0  0  0.584  4  0  5   0
482 25  1  1.1  632.  150.   9.   28.  641.  164.   0.  39.2  8.6  39.2  0.0 -1  0  0  0  0  0  0  0.438  4  0  3   0
483  8  7  4.0  436.  344.  11.  270.  436.  344.   0.  26.3 10.8  26.3  0.0 -1 10  0  0  0  0  0  0.579  4  0  1   0
484 26  9 35.2  251. -248.  14.  284.  261. -248.   0.  35.2 13.3  35.2  0.0 -1  0  0  0  0  0  0  0.367  4  0  4   0
485  3 14 75.0 1087. 1601.  10.   -5. 1088. 1602.  10.  27.7  9.9  27.7  0.0  0 -1  0  0  0  0  0  0.0    5  0 14   0
486  1  6 319.5 674. -283.  13. -133.  697. -234.   0.  72.3 12.9  72.3  0.0 -1  0  0  0  0  0  0  0.629  4  0  5   0
487 26  8 29.2  227. -322.  12.  286.  231. -323.   0.  28.5 11.6  28.5  0.0 -1  0  0  0  0  0  0  8.114  5  0  4   0
488 14 13 31.6 1151. 1814.  13.   -8. 1151. 1814.  13.   3.0 13.3   3.0  0.0  0 -1  0  0  0  0  0  0.0    4  0 14   0
489 26  8 28.6  574.  -71.  15.   22.  590.  -58.   0.  47.4 14.8  47.4  0.0 -1  0  0  0  0  0  0  6.801  4  0  4   0
490  3 15 33.8  509.  270.  11.  180.  510.  268.   0.  26.0 10.6  26.0  0.0 -1  0  0  0  0  0  0  0.180  4  0  1   0
491  3 14 34.8  903. -126.  19. -309.  816.   47.   0. 158.4 19.2 157.7  0.0 -1  0  0  0  0  0  0  1.011  3  0  5   0
492  3 14 30.6  857.  150.  24. -188.  792.  301.  17. 121.8 24.3 121.8 86.9  4  2  *  *  *  *  *  0.855  3  0  5  51
492  3 14 30.6  826.  203.  24. -188.  783.  295.  16. 119.6 23.3 119.6 33.1  4  2  0  0  0  0  0  0.086  3  0  5  51
492  3 14 30.6  826.  203.  24. -188.  782.  295.  15. 123.7 23.3 123.7 39.8  4  2  0  0  0  0  0  0.086  3  0  5  51
492  3 14 30.6  826.  203.  24. -188.  795.  303.  14. 124.2 23.3 124.2 102.1 4  2  0  0  0  0  0  0.086  3  0  5  51
492  3 14 30.6  826.  203.  24. -188.  796.  304.  12. 132.8 23.2 132.8 96.8  4  2  0  0  0  0  0  0.086  3  0  5  51
492  3 14 30.6  826.  203.  24. -188.  792.  301.  19. 122.2 23.3 122.2 68.6  4  2  0  0  0  0  0  0.086  3  0  5  51
492  3 14 30.6  826.  203.  24. -188.  791.  300.  16. 116.5 23.3 116.5 69.6  4  2  0  0  0  0  0  0.086  3  0  5  51
492  3 14 30.6  826.  203.  24. -188.  787.  298.  21. 125.1 23.4 125.1 29.7  4  2  0  0  0  0  0  0.086  3  0  5  51
492  3 14 30.6  826.  203.  24. -188.  791.  300.   6. 128.3 23.1 128.3 56.0  4  2  0  0  0  0  0  0.086  3  0  5  51
492  3 14 30.6  826.  203.  24. -188.  793.  302.  16. 141.1 23.3 141.1 30.7  4  2  0  0  0  0  0  0.086  3  0  5  51
492  3 14 30.6  826.  203.  24. -188.  792.  301.  19. 138.9 23.4 138.9 28.5  4  2  0  0  0  0  0  0.086  3  0  5  51
492  3 14 30.6  826.  203.  24. -188.  874.  319.   0. 142.7 23.4 142.7  0.0 -1 24  0  0  0  0  0  0.086  3  0  5  51
493 25  1  1.2  710.   76.   7.  -68.  707.   79.   0.  22.2  7.4  22.2  0.0 -1  4  0  0  0  0  0  2.404  4  0  5   0
494 25  1  3.5  610. -522.  32. -138.  616. -443.   0.  83.2 32.1  83.2  0.0 -1  0  0  0  0  0  0  0.350  4  0 12   0
495 25  1  1.5  820. 1013.  12.   88.  829. 1016.   0.  34.0 12.3  34.0  0.0 -1  0  0  0  0  0  0  0.688  4  0  8   0
496 26  8 42.8  644. -276.  11. -102.  652. -260.   0.  45.7 11.2  45.7  0.0 -1  0  0  0  0  0  0  8.280  4  0  4   0
497  3 14 57.4  486.   93.  25.  152.  506.  135.   0.  63.9 24.6  63.9  0.0 -1  0  0  0  0  0  0  1.863  4  0  3   0
498 26  9 37.2  640.  -25.  14.  -28.  669.    9.   0.  79.4 14.2  79.4  0.0 -1  0  0  0  0  0  0  0.352  4  0  4   0
499 26  8 39.4  503.  -52.   9.   95.  512.  -47.   0.  34.7  8.6  34.7  0.0 -1  0  0  0  0  0  0  9.876  4  0  4   0
500  1  6 596.0 1157. 1887.  13.    6. 1152. 1888.   0.  26.5 12.8  26.5  0.0 -1  0  0  0  0  0  0  0.088  4  0 14   0
```

<div align="center">SUMMARY FOR TORNADO 8</div>

TARGET	EVENT	P(A|I)	SINGLE MISSILE VAR(P(A|I))		CONFIDENCE BOUNDS	P(A)	MULTIPLE MISSILE P(A|I)**N	P(A)**N
1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2	0.443465E-01	0.750053E-03	-0.933194E-02	0.980250E-01	0.296015E+00	0.100000E+01	0.667505E+01
2	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1	0.200545E-02	0.401294E-05	-0.192087E-02	0.593176E-02	0.133865E-01	0.999320E+00	0.667050E+01
3	2	0.287840E-01	0.530870E-03	-0.163755E-01	0.739434E-01	0.192134E+00	0.100000E+01	0.667505E+01
3	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0

```
28  ● 2    0.0           0.0           0.0           0.0          ●.0          0.0            0.0
28     3    0.0           0.0           0.0           0.0           0.0          0.0            0.0
28     4    0.0           0.0           0.0           0.0           0.0          0.0            0.0
28     5    0.0           0.0           0.0           0.0           0.0          0.0            0.0
28     6    0.0           0.0           0.0           0.0           0.0          0.0            0.0
28     7    0.0           0.0           0.0           0.0           0.0          0.0            0.0
28     8    0.0           0.0           0.0           0.0           0.0          0.0            0.0
28     9    0.0           0.0           0.0           0.0           0.0          0.0            0.0
28    10    0.0           0.0           0.0           0.0           0.0          0.0            0.0
28    11    0.0           0.0           0.0           0.0           0.0          0.0            0.0
ALL    1    0.364572E-01  0.442229E-03 -0.475989E-02  0.776743E-01  0.171619E+00  0.100000E+01  0.470739E+01
ALL    2    0.463267E+00  0.775478E-02  0.290668E+00   0.635866E+00  0.218078E+01  0.100000E+01  0.470739E+01
ALL    3    0.0           0.0           0.0            0.0           0.0          0.0            0.0
ALL    4    0.0           0.0           0.0            0.0           0.0          0.0            0.0
ALL    5    0.0           0.0           0.0            0.0           0.0          0.0            0.0
ALL    6    0.0           0.0           0.0            0.0           0.0          0.0            0.0
ALL    7    0.199913E-01  0.192425E-03 -0.719719E-02  0.471798E-01  0.941069E-01  0.567197E+00  0.267002E+01
ALL    8    0.0           0.0           0.0            0.0           0.0          0.0            0.0
ALL    9    0.0           0.0           0.0            0.0           0.0          0.0            0.0
ALL   10    0.0           0.0           0.0            0.0           0.0          0.0            0.0
ALL   11    0.0           0.0           0.0            0.0           0.0          0.0            0.0
2021 UNION 1                                                                     0.0            0.0
2021 UNION 2                                                                     0.0            0.0
2021 UNION 3                                                                     0.0            0.0
2021 UNION 4                                                                     0.0            0.0
2021 UNION 5                                                                     0.0            0.0
2021 UNION 6                                                                     0.0            0.0
2021 UNION 7                                                                     0.0            0.0
2021 UNION 8                                                                     0.0            0.0
2021 UNION 9                                                                     0.0            0.0
2021 UNION10                                                                     0.0            0.0
2021 UNION11                                                                     0.0            0.0
2021 INT   1                                                                     0.0            0.0
2021 INT   2                                                                     0.0            0.0
2021 INT   3                                                                     0.0            0.0
2021 INT   4                                                                     0.0            0.0
2021 INT   5                                                                     0.0            0.0
2021 INT   6                                                                     0.0            0.0
2021 INT   7                                                                     0.0            0.0
2021 INT   8                                                                     0.0            0.0
2021 INT   9                                                                     0.0            0.0
2021 INT  10                                                                     0.0            0.C
2021 INT  11                                                                     0.0            0.0
```

Typical F-5 Tornado Missile History

```
NHITS,NHITV,NDAM1-4    53      2.7000      0.0         0.0         0.0          0.0
AVHWT,AVHWTS,NNO,NHOR,NVER 0.462289E+01 0.409315E+01    0     0     0
NHISZ        85           27          29          95          96         1         0         58
NHISZ         2            3           1          24           0        77         2
NAHISZ        7            1           7           0          16         0         0          5
NAHISZ        0            2           1           9           0         6         0
```



```
                                        TORNADO    22 PARAMETERS AND MISSILE HISTORY RESULTS
I,UMAX,UTRAN,WIDTH,TAU,YPOSET    5 0.343923E+03 0.374504E+02 0.256464E+04 0.719874E+01-0.746880E+03
TWT,PSTR,TWTP,YPLT,YPRT          0.184583E+00 0.910207E+01 0.168009E+01 0.261356E+03-0.230329E+04
SLOPE,GAMMA,DELTA,RR,RL,RMAX     0.193315E-01 0.743732E+00 0.424199E+03 0.155641E+04 0.100824E+04 0.480113E+03
```

| | | SUB | | | | | | | | | | | | | | | | | | | | | | | | |
NMIS	SET	SET	LOD	XO	YO	ZO	OFFSET	X1	Y1	Z1	VMAX	ZMAX	VHIT	VE	WAL	TAR	D1	D2	D3	D4	DV	HWT	KEY	SF	IZ	NHT
1	26	9	33.7	528.	19.	7.	340.	551.	2.	0.	70.7	7.2	70.7	0.0	-1	0	0	0	0	0	0	0.552	4	0	4	0
2	14	11	70.5	1175.	695.	8.	239.	1196.	693.	0.	48.8	8.4	48.8	0.0	-1	0	0	0	0	0	0	0.960	4	0	2	0
3	3	14	70.2	993.	-85.	10.	-92.	1077.	-44.	0.	168.0	9.4	166.4	0.0	-1	0	0	0	0	0	0	7.720	5	0	5	0
4	26	9	26.9	1987.	-1159.	29.	-1535.	1991.	-1139.	0.	47.5	28.6	47.5	0.0	-1	0	0	0	0	0	0	0.252	5	0	12	0
5	3	10	48.0	1091.	773.	15.	353.	1121.	751.	0.	56.6	15.3	56.6	0.0	-1	0	0	0	0	0	0	0.075	4	0	8	0
6	3	14	26.1	407.	205.	16.	550.	463.	148.	0.	116.2	15.7	115.8	0.0	-1	0	0	0	0	0	0	1.985	4	0	1	0
7	26	9	21.0	303.	-220.	10.	373.	304.	-220.	10.	12.2	10.2	12.2	0.0	0	-1	0	0	0	0	0	0.0	4	0	4	0
8	26	8	20.8	384.	-309.	13.	253.	409.	-319.	0.	56.7	12.7	56.7	0.0	-1	0	0	0	0	0	0	38.083	4	0	4	0
9	3	15	39.1	746.	256.	13.	311.	752.	247.	0.	34.0	12.9	34.0	0.0	-1	0	0	0	0	0	0	0.801	4	0	1	0
10	3	14	28.6	2012.	-235.	16.	-992.	2028.	-140.	0.	76.9	17.6	76.9	0.0	-1	0	0	0	0	0	0	2.012	3	0	6	0
11	14	11	16.5	244.	490.	14.	852.	244.	485.	0.	28.8	13.6	28.8	0.0	-1	0	0	0	0	0	0	0.733	4	0	2	0
12	3	14	54.7	-441.	-1575.	41.	137.	-184.	-1580.	0.	226.9	40.2	224.4	0.0	-1	0	0	0	0	0	0	1.166	5	0	11	0
13	3	14	30.9	743.	10.	9.	164.	790.	44.	0.	92.5	9.5	92.5	0.0	-1	0	0	0	0	0	0	7.822	3	0	5	0

```
14        37.3 2380.  146.  33.-1051. 2379.  157.   0.  46.4  32.8  185    0.0 -1  0  0  0  0  0  0   0.109 4 0 13  0
15    14  67.3 1513. 1045.  23.  184. 1011.  407.  75. 221.0 128.5 185   57.1  7  3  *  *  *  *  *   1.399 3 0  7  1
15  3 14  67.3  969.  585.  96.  184. 1013.  407.  71. 214.5  92.3 174.6  88.1  7  3  0  0  0  0  0   0.140 3 0  7  1
15  3 14  67.3  969.  585.  96.  184. 1016.  408.  50. 226.4  91.9 226.4  75.1  7  3  0  0  0  0  1   0.140 3 0  7  1
15  3 14  67.3  969.  585.  96.  184. 1020.  410.  50. 213.5  92.0 169.0  74.2  7  3  0  0  0  0  0   0.140 3 0  7  1
15  3 14  67.3  969.  585.  96.  184. 1021.  410.  67. 213.7  92.2 179.6  76.3  7  3  0  0  0  0  0   0.140 3 0  7  1
15  3 14  67.3  969.  585.  96.  184. 1003.  402.  45. 211.9  92.0 136.0  74.8  7  3  0  0  0  0  0   0.140 3 0  7  1
15  3 14  67.3  969.  585.  96.  184. 1018.  409.  69. 211.2  92.3 162.8 127.4  7  3  0  0  0  0  0   0.140 3 0  7  1
15  3 14  67.3  969.  585.  96.  184. 1025.  411.  60. 216.5  92.1 197.1 141.2  7  3  0  0  0  0  1   0.140 3 0  7  1
15  3 14  67.3  969.  585.  96.  184. 1005.  412.  42. 220.5  91.8 219.5 138.4 74 14  0  0  0  0  1   0.140 3 0  7  1
15  3 14  67.3  969.  585.  96.  184. 1027.  411.  62. 212.3  92.2 175.8  32.8  7  3  0  0  0  0  0   0.140 3 0  7  1
15  3 14  67.3  969.  585.  96.  184. 1008.  426.  42. 210.5  91.8 156.8  41.4 74 14  0  0  0  0  0   0.140 3 0  7  1
15  3 14  67.3  969.  585.  96.  184. 1018.  409.  43. 210.5  91.8 152.6 100.6  7  3  0  0  0  0  0   0.140 3 0  7  1
16  1  6 920.6  891.   81.  22.   89.  945.   57.   0.  82.1  21.7  82.1   0.0 -1 26  0  0  0  0  0   0.444 4 0  5  0
17  3 14  31.9 2128.  903.  41. -390. 2186. 1000.   0. 198.3  39.6 197.2   0.0 -1  0  0  0  0  0  0   0.696 5 0 13  0
18  3 14  26.7  259.  306.  17.  728.  308.  208.   0.  81.4  17.6  81.2   0.0 -1  0  0  0  0  0  6   1.892 3 0  1  0
19 14 12  66.5 1222. 1601.  20.  753. 1233. 1591.   0.  40.8  19.7  40.8   0.0 -1  0  0  0  0  0  0   0.117 4 0 14  0
20 14 13  32.3  734. -212.  12.   35.  755. -212.   0.  48.0  11.9  48.0   0.0 -1  0  0  0  0  0  0   0.654 4 0  5  0
21  1  6 327.4  738.   81.  18.  211.  844.   94.   0.  86.3  18.2  86.3   0.0 -1  0  0  0  0  0  0   0.506 4 0  5  0
22 26  9  39.9 1135. -528.  34. -475. 1129. -346.   0. 158.2  33.9 158.2   0.0 -1  0  0  0  0  0  0   0.916 4 0 12  0
23 26  8  22.1  289. -321.  14.  323.  311. -336.   0.  56.6  13.5  56.6   0.0 -1  0  0  0  0  0  0  14.540 4 0  4  0
24  8  7   4.0  889.  350.  13.  255.  891.  350.   0.  27.9  13.0  27.9   0.0 -1 24  0  0  0  0  0   2.553 4 0  1  0
25  3 14  54.4  621.  164.  15.  354.  660.  148.   4. 123.2  15.0 123.2  29.8 10  4  *  *  *  *  *   2.591 5 0  3  2
25  3 14  54.4  621.  164.  15.  354.  660.  150.   2. 122.9  14.9 122.9  29.3 10  4  0  0  0  0  0   0.259 5 0  3  2
25  3 14  54.4  621.  164.  15.  354.  631.  154.   0.  79.9  14.7  79.9   0.0 -1  0  0  0  0  0  0   0.259 5 0  3  2
25  3 14  54.4  621.  164.  15.  354.  645.  159.   0.  95.4  14.7  95.4   0.0 -1  0  0  0  0  0  0   0.259 5 0  3  2
25  3 14  54.4  621.  164.  15.  354.  660.  152.  39. 105.6  38.9 105.6  21.8 10  4  0  0  0  0  0   0.259 5 0  3  2
25  3 14  54.4  621.  164.  15.  354.  660.  150.  14. 123.4  15.4 123.4  47.4 10  4  0  0  0  0  0   0.259 5 0  3  2
25  3 14  54.4  621.  164.  15.  354. 1881.  118.   0. 264.6 104.9 261.7   0.0 -1  0  0  0  0  0  0   0.518 5 0  3  2
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25  3 14  54.4  621.  164.  15.  354.  660.  131.  17.  94.9  17.4  94.9  55.3 10  4  0  0  0  0  0   0.259 5 0  3  2
25  3 14  54.4  621.  164.    15.   354.HISTORY DEFAULT,IFLAG=   3
25 26  8  45.5  455. -153.  15.  292.  474. -167.   0.  51.8  12.9  51.8   0.0 -1  0  0  0  0  0  0  37.514 4 0  4  0
26  3 15  17.6  559.  201.  10.  426.  566.  202.   0.  28.3   9.9  28.3   0.0 -1  0  0  0  0  0  0   0.932 4 0  1  0
27  3 15  23.2  712. 1034.  14.  812.  712. 1033.   0.  29.3  13.8  29.3   0.0 -1  0  0  0  0  0  0   0.627 4 0  8  0
28  1  6 310.2 2085. 1369.  30.  -72. 2010. 1386.   0.  94.8  29.8  94.8   0.0 -1  0  0  0  0  0  0   0.169 4 0 13  0
29 26  9  38.4 2767. 2038.  30. -205. 2903. 2142.   0. 157.8  30.2 157.5   0.0 -1  0  0  0  0  0  0   2.658 4 0 13  0
30 25  1   4.0  265.  265.  13.  698.  262.  256.   0.  31.5  12.7  31.5   0.0 -1  0  0  0  0  0  0   0.337 4 0  1  0
31 26  8  47.0  435.   32.   6.  421.  442.   24.   0.  35.4   5.6  35.4   0.0 -1  0  0  0  0  0  0  12.588 4 0  4  0
32  3 14  46.0  896.   96.  21.   95. 1462.   68.  84. 292.0  83.6 292.0   0.0  0 -1  0  0  0  0  0   0.0   3 0  5  0
33  1  6 311.5 2131. 1926.  44.  231. 2131. 1926.  44.   4.6  43.7   4.6   0.0  0 -1  0  0  0  0  0   0.0   3 0 13  0
34  1  6 934.0  932. -188.  22. -107.  845. -172.   0.  72.1  26.0  72.1   0.0 -1  0  0  0  0  0  0   0.443 3 0  5  0
35 26  9  28.0  494. -143.  14.  268.  547. -164.   0.  97.4  13.6  97.4   0.0 -1  0  0  0  0  0  0   1.813 4 0  4  0
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38  3 14  32.5  335.  815.  21.  977.  372.  799.   0.  46.1  20.5  46.1   0.0 -1  0  0  0  0  0  0   1.156 4 0  8  0
39 26  8  29.0  832. -135.   8.    5.  849. -131.   0.  48.2   8.0  48.2   0.0 -1  0  0  0  0  0  0  24.316 4 0  5  0
40 26  8  40.7  739.-1145.  28. -537.  737.-1086.   0.  84.3  27.7  84.3   0.0 -1  0  0  0  0  0  0  10.780 5 0 12  0
41 26  9  35.6 2277. -809.  28.-1552. 2281. -790.   0.  46.6  27.8  46.6   0.0 -1  0  0  0  0  0  0   0.313 5 0 13  0
42 25  1   1.0  886.  336.  14.  249.  876.  322.   0.  43.0  14.3  43.0   0.0 -1 24  0  0  0  0  0   0.308 4 0  1  0
43 14 12  64.9  590.  813.  19.  775.  591.  802.   0.  36.9  19.1  36.9   0.0 -1  0  0  0  0  0  0   0.289 4 0  8  0
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45 25  1   2.8  846.    8.  12.   81.  868.    8.   0.  47.2  12.4  47.2   0.0 -1  0  0  0  0  0  0   0.343 4 0  5  0
46  3 15  13.2  302.  653.  23.  905.  302.  650.   0.  37.7  23.2  37.7   0.0 -1  0  0  0  0  0  0   0.947 4 0  2  0
47  1  6 182.3 1089. -282.  19. -288. 1084. -224.   0.  76.8  19.0  76.8   0.0 -1  0  0  0  0  0  0   0.098 4 0  5  0
48 25  1   1.6 1112. -337.   9. -340. 1146. -271.   0.  85.5   9.5  85.5   0.0 -1  0  0  0  0  0  0   0.415 3 0  5  0
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50  8  7   4.0  294.  219.  13.  647.  294.  219.   0.  28.3  12.4  28.3   0.0 -1  0  0  0  0  0  0   2.634 4 0  1  0
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55 26  8  23.5  369. -296.  13.  274.  392. -307.   0.  56.1  12.5  56.1   0.0 -1  0  0  0  0  0  0  38.474 4 0  4  0
56  3 14  29.6 1426. 1955.  10.  808. 1435. 1932.   0.  51.4  10.2  51.3   0.0 -1  0  0  0  0  0  0   2.367 4 0  7  0
57  3 15  11.5  246.  559.  16.  893.  247.  559.   0.  32.5  16.1  32.5   0.0 -1  0  0  0  0  0  0   6.096 5 0  2  0
58 25  1   3.5  863.  283.  10.  235.  891.  268.   0.  67.5  10.0  67.5   0.0 -1  0  0  0  0  0  0   1.980 4 0  1  0
59 26  8  36.6  500.  -10.  10.  344.  516.  -21.   0.  48.8  10.2  48.8   0.0 -1  0  0  0  0  0  0  44.265 4 0  4  0
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```

```
 67           63.2 2218. 1545.  40.  -70. 1772. 1588.   0. 164.4  67.4 13.       0.0 -1  0  0  0  0  0  0   0.358  3  0 13    0
 68 26  9     47.4  239. -150.  14.  466.  239. -151.  14.  11.7  13.9  11.       0.0  0 -1  0  0  0  0  0  0   0.0    4  0  4    0
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 71 14 13     57.9 1100. -209.  25. -252. 1086. -157.   0.  67.5  24.8  67.5      0.0 -1  0  0  0  0  0  0   0.402  4  0  5    0
 72  1  6    818.2  548.  989.  16.  915.  556.  984.   0.  34.9  15.4  34.9      0.0 -1  0  0  0  0  0  0   0.167  5  0  8    0
 73 26  9     47.6  381.  -10.  10.  438.  404.  -40.   0.  76.9   9.6  76.9      0.0 -1  0  0  0  0  0  0   0.460  4  0  4    0
 74 25  1      1.7  544.  182.  14.  426.  570.  171.   0.  54.3  13.5  54.3      0.0 -1  0  0  0  0  0  0   0.323  4  0  3    0
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 76 26  8     43.7  372.  -43.  10.  426.  384.  -56.   0.  46.2   9.9  46.2      0.0 -1  0  0  0  0  0  0  45.157  4  0  4    0
 77  3 14     64.0 -740.-1493.  30.  423. -692.-1517.   0. 131.1  29.7 131.1      0.0 -1  0  0  0  0  0  0   1.792  5  0 11    0
 78 14 12     23.0  725.  813.  14.  667.  732.  809.   0.  30.1  13.6  30.1      0.0 -1  0  0  0  0  0  0   1.807  4  0  8    0
 79  1  6    380.4  756.   97.  20.  207.  760.   72.   0.  46.0  19.9  46.0      0.0 -1  4  0  0  0  0  0   0.473  4  0  5    0
 80  3 14     52.7  378.  181.  15.  557.  476.  -46.   0. 168.5  17.4 168.4      0.0 -1  0  0  0  0  0  0  13.236  3  0  3    0
 81 26  9     35.3  878.-1236.  25. -703.  882.-1174.   0.  84.9  25.1  84.9      0.0 -1  0  0  0  0  0  0   0.339  5  0 12    0
 82  3 14     57.2  383.  186.  22.  557.  407.  106.   0. 130.5  21.7 128.4      0.0 -1  0  0  0  0  0  0   2.028  5  0  3    0
 83  3 14     58.9 1000.   69.  24.   -4. 2305.  476.   0. 282.1 150.8 216.6      0.0 -1  0  0  0  0  0  0   1.682  3  0  5    0
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 85 25  1      2.3  674.-1564.  25. -741.  676.-1520.   0.  59.0  24.9  59.0      0.0 -1  0  0  0  0  0  0   0.599  4  0 12    0
 86 26  9     23.8  233.    8.   6.  566.  239.   -6.   0.  43.4   6.3  43.4      0.0 -1  0  0  0  0  0  0   5.957  5  0  4    0
 87 26  8     22.7  905.   -1.  10.   28.  924.    2.   0.  48.6   9.5  48.6      0.0 -1  0  0  0  0  0  0   4.371  4  0  5    0
 88 26  9     26.8  558. -326.  15.  105.  622. -328.   0. 102.9  14.8 102.9      0.0 -1  0  0  0  0  0  0   1.709  4  0  4    0
 89 26  9     26.2 2301.  326.  27. -879. 2301.  326.  27.   6.9  26.5   6.9      0.0  0 -1  0  0  0  0  0  0   0.0    5  0 13    0
 90 26  9     37.3 1429.-1098.  34.-1056. 1435.-1055.   0.  63.8  33.8  63.8      0.0 -1  0  0  0  0  0  0   0.920  5  0 12    0
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103  8  7      4.0  394.  346.  14.  646.  394.  345.   0.  30.1  14.2  30.1      0.0 -1  0  0  0  0  0  0   0.478  4  0  1    0
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107  3 16      9.1  776.  703.   9.  560.  776.  697.   0.  26.4   9.0  26.4      0.0 -1 17  0  0  0  0  0   0.132  4  0  2    0
108  3 14     46.6 1237.  595.  19.  128. 1006.  477.  48. 125.8  55.5 124.9  68.8103 19  *  *  *  *  *   3.946  3  0  2    4
108  3 14     46.6 1083.  519.  55.  128. 1011.  478.  42. 125.4  53.7 123.6  37.8 98 18  0  0  0  0  0   0.395  3  0  2    4
108  3 14     46.6 1083.  519.  55.  128. 1016.  477.  49. 126.8  53.9 125.1  94.2103 19  0  0  0  0  0   0.395  3  0  2    4
108  3 14     46.6 1083.  519.  55.  128. 1011.  477.  48. 150.7  53.8 150.7   0.2103 19  0  0  0  0  0   0.395  3  0  2    4
108  3 14     46.6 1083.  519.  55.  128. 1010.  477.  47. 151.9  53.8 151.9  63.4103 19  0  0  0  0  0   0.395  3  0  2    4
108  3 14     46.6 1083.  519.  55.  128. 1014.  481.  42. 130.4  53.7 130.4  16.0 98 18  0  0  0  0  0   0.395  3  0  2    4
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108  3 14     46.6 1083.  519.  55.  128. 1002.  477.  50. 140.8  53.9 140.8  59.7103 19  0  0  0  0  0   0.395  3  0  2    4
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108  3 14     46.6 1083.  519.  55.  128. 1016.  477.  50. 142.6  53.9 142.6   6.7103 19  0  0  0  0  0   0.395  3  0  2    4
108  3 14     46.6 1083.  519.  55.  128. 1013.  477.  50. 126.5  53.9 125.3  78.3103 19  0  0  0  0  0   0.395  3  0  2    4
108  3 14     46.6 1083.  519.  55.  128. 1003.  477.  50. 126.5  53.9 103.9   0.1103 19  0  0  0  0  0   0.395  3  0  2    4
109 26  8     26.0  423. -184.  14.  299.  445. -200.   0.  56.4  14.2  56.4      0.0 -1  0  0  0  0  0  0  70.016  4  0  4    0
110 25  1      1.3  744. -790.  34. -325.  675. -707.   0. 102.7  34.2 102.7      0.0 -1  0  0  0  0  0  0   0.310  4  0 12    0
111  3 15     25.1 1557.  939.  21.   84. 1535.  936.   0.  43.7  20.8  43.7      0.0 -1  0  0  0  0  0  0   0.420  4  0  7    0
112  3 15     25.9  212.  293.  22.  757.  211.  289.   0.  37.1  22.3  37.1      0.0 -1  0  0  0  0  0  0   0.111  4  0  1    0
113  3 14     22.2  836.  -47.  13.   55. 1246.   -9.  14. 234.4  27.0 234.2      0.0  0 -1  0  0  0  0  0  0   0.0    3  0  5    0
114  3 14     40.0 1593.  924.  23.   47. 1256.  865.   0. 169.5  35.8 168.1      0.0 -1  0  0  0  0  0  0   1.405  3  0  7    0
115  3 14     27.6 1893. -219.   8. -888. 1920. -177.   0.  68.7   8.5  68.7      0.0 -1  0  0  0  0  0  0   5.882  3  0  6    0
116  3 15     35.2  494.  702.  17.  783.  496.  697.   0.  33.0  16.9  33.0      0.0 -1 16  0  0  0  0  0   1.179  4  0  2    0
117 26  9     25.7  493.   33.  11.  376.  526.    6.   0.  85.1  11.0  85.0      0.0 -1  0  0  0  0  0  0   2.101  4  0  4    0
118  3 14     68.7 1664. 1971.  18.  628. 1678. 1878.   0. 112.8  17.7 111.6      0.0 -1  0  0  0  0  0  0   1.690  4  0  7    0
119 26  8     29.0  543.   -9.  14.  310.  567.  -24.   0.  58.1  13.9  58.1      0.0 -1  0  0  0  0  0  0  35.632  4  0  4    0
120  3 16     13.1 1032.  576.  12.  280. 1044.  576.   0.  39.8  11.5  39.8      0.0 -1 18  0  0  0  0  0   0.577  5  0  2    0
121 25  1      3.2  713.  208.  12.  308.  701.  183.   0.  52.2  12.4  52.2      0.0 -1  4  0  0  0  0  0   1.718  4  0  1    0
122 25  1      3.6 1018. 1254.  11.  704. 1025. 1252.   0.  28.4  10.4  28.4      0.0 -1  0  0  0  0  0  0   0.771  4  0  8    0
123  3 14     23.9  720. -153.  20.   83. 1293.  -34.   0. 241.8  27.3 238.2      0.0 -1  0  0  0  0  0  0   1.926  3  0  5    0
124  1  6    344.4  672.    6.   9.  218.  697.    5.   0.  64.3   8.6  64.3      0.0 -1  0  0  0  0  0  0   0.157  5  0  5    0
125  3 16     14.7 1941. -302.  21. -976. 1939. -293.   0.  39.7  20.8  39.7      0.0 -1  0  0  0  0  0  0   3.188  5  0  6    0
126 25  1      2.3  333.  106.   9.  548.  336.  101.   0.  33.7   8.3  33.7      0.0 -1  0  0  0  0  0  0   0.443  4  0  8    0
127  3 14     52.7  479.  851.  24.  886.  517.  789.   0.  77.8  23.6  77.8      0.0 -1  0  0  0  0  0  0   1.047  4  0  8    0
128 14 11     80.2  735.  709.   9.  596.  736.  694.   0.  35.1   9.1  35.1      0.0 -1 17  0  0  0  0  0   0.921  4  0  2    0
```

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129        6.2 1685.   481.  13.  -296. 1679.   493.   0.  37.1  13.3   3     0.0 -1  0  0  0  0  0  0   0.858  4  0  6   0
130  1  6 609.7  766.  -332.  17.   -63.  813.  -326.  24.  75.8  24.9  75.8   0.0  0 -1  0  0  0  0  0   0.0    3  0  5   0
131 26  8  21.5  588.   -58.  12.   245.  612.   -66.   0.  57.2  12.2  57.2   0.0 -1  0  0  0  0  0  0   7.801  4  0  4   0
132 25  1   3.9  236. -1434.  30.  -314.  167. -1321.   0. 112.7  30.3 112.7   0.0 -1  0  0  0  0  0  0   0.392  3  0 12   0
133  3 14  51.1  960.   319.  24.   180.  923.   293.  32. 115.8  32.1 115.8 28.8132 24  *  *  *  *  *   7.474  3  0  1   5
133  3 14  51.1  960.   319.  24.   180.  923.   307.  15. 114.9  23.4 114.9 37.8132 24  0  0  0  0  0   0.747  3  0  1   5
133  3 14  51.1  960.   319.  24.   180.  845.   198.   0. 149.7  24.1 148.3   0.0 -1  0  0  0  0  0  0   0.747  3  0  1   5
133  3 14  51.1  960.   319.  24.   180.  930.   273.   0.  84.3  23.7  84.3   0.0 -1  0  0  0  0  0  0   0.747  3  0  1   5
133  3 14  51.1  960.   319.  24.   180.  923.   324.  16.  67.9  23.7  67.9 17.6132 24  0  0  0  0  0   0.747  3  0  1   5
133  3 14  51.1  960.   319.  24.   180.  923.   294.  26. 108.4  25.8 108.4 48.5132 24  0  0  0  0  0   0.747  3  0  1   5
133  3 14  51.1  960.   319.  24.   180.  824.   159.  22. 118.0  36.9 118.0 70.3 12  4  0  0  0  0  0   0.747  3  0  1   5
133  3 14  51.1  960.   319.  24.   180.  918.   240.   0. 100.9  23.6 100.9   0.0 -1 26  0  0  0  0  0   0.747  3  0  1   5
133  3 14  51.1  960.   319.  24.   180.  908.   200.   8. 101.3  24.0 101.3 22.2142 26  0  0  0  0  0   0.747  3  0  1   5
133  3 14  51.1  960.   319.  24.   180.  942.   309.   0.  65.2  23.4  65.2   0.0 -1 24  0  0  0  0  0   0.747  3  0  1   5
133  3 14  51.1  960.   319.  24.   180.  923.   318.   8.  58.8  23.7  58.8 27.6132 24  0  0  0  0  0   0.747  3  0  1   5
133  3 14  51.1  960.   319.  24.   180.  927.   312.   0.  62.3  23.7  62.3   0.0 -1 24  0  0  0  0  0   0.747  3  0  1   5
134  3 14  50.9  705.   -80.  18.   139. 1191.   -65.   0. 211.8  18.3 211.8   0.0 -1  0  0  0  0  0  0   1.046  3  0  5   0
135  3 15  34.0 1108.   314.  22.    60. 1088.   306.   0.  44.3  22.2  44.3   0.0 -1  0  0  0  0  0  0   0.112  4  0  1   0
136 25  1   2.6 1639.  1934.  14.   626. 1640.  1924.   0.  40.0  14.2  40.0   0.0 -1  0  0  0  0  0  0   1.547  5  0  7   0
137  3 14  78.9 -784. -1068.  36.   718. -784. -1069.  36.  16.1  36.0  16.1   0.0  0 -1  0  0  0  0  0   0.0    4  0 11   0
138  3 14  73.6 1305.   854.  18.   232. 1568.   736.   0. 192.3  18.7 189.6   0.0 -1  0  0  0  0  0  0  16.482  3  0  7   0
139 14 13  41.8  767.   127.  11.   216.  796.   120.   0.  54.0  11.2  54.0   0.0 -1  4  0  0  0  0  0   0.681  4  0  5   0
140  3 14  79.2  970.   -42.  24.   -48. 1708.  2053.   0. 312.6 278.8 111.0   0.0 -1  0  0  0  0  0  0   8.540  3  0  5   0
141  3 14  77.8  391.   126.  14.   513.  365.    68.   0.  85.2  13.7  85.2   0.0 -1  0  0  0  0  0  0  13.953  4  0  3   0
142  3 14  39.2 2360.  1538.  38.  -187. 2503.  1619.  42. 221.4  41.8 221.4   0.0  0 -1  0  0  0  0  0   0.0    3  0 13   0
143 26  8  25.9  937.  -643.  27.  -388.  967.  -572.   0.  97.1  26.7  97.1   0.0 -1  0  0  0  0  0  0  58.687  4  0 12   0
144 26  8  22.3  297.   -17.   7.   501.  301.   -25.   0.  33.3   6.7  33.3   0.0 -1  0  0  0  0  0  0  57.358  5  0  4   0
145  3 14  27.3 1771.   -29.  24.  -676. 1799.   237.   0. 141.8  40.4 141.8   0.0 -1  0  0  0  0  0  0   1.536  3  0  6   0
146 14 13  56.4 1141.   593.  25.   204. 1186.   564.   0.  76.7  24.8  76.7   0.0 -1  0  0  0  0  0  0   0.173  4  0  2   0
147  8  7   4.0  387.   298.  12.   622.  386.   298.   0.  27.2  11.7  27.2   0.0 -1  0  0  0  0  0  0   2.746  4  0  1   0
148 26  9  28.3  439.  -226.   9.   261.  474.  -239.   0.  81.9   8.5  81.9   0.0 -1  0  0  0  0  0  0   0.497  4  0  4   0
149  3 14  35.0 1730.   446.  17.  -353. 1731.   447.  17.  23.8  16.6  23.8   0.0  0 -1  0  0  0  0  0   0.0    5  0  6   0
150  3 14  27.9 -245.    99.  37.  1002. -215.    84.   0.  65.1  36.4  65.1   0.0 -1  0  0  0  0  0  0   1.347  5  0 11   0
151  3 15  29.0 1802.  1386.  19.   163. 1802.  1386.   0.  34.8  18.9  34.8   0.0 -1  0  0  0  0  0  0   2.244  4  0  7   0
152 14 13  16.3  707.  -177.  14.    78.  697.  -180.   0.  34.4  13.8  34.4   0.0 -1  0  0  0  0  0  0   2.998  4  0  5   0
153  3 16  15.0 1831.    87.  13.  -652. 1831.   101.   0.  33.0  12.8  33.0   0.0 -1  0  0  0  0  0  0   4.408  4  0  6   0
154  1  6 224.3  366.   884.  20.   995.  364.   878.   0.  36.6  20.3  36.6   0.0 -1  0  0  0  0  0  0   0.028  5  0  8   0
155  3 14  80.0  784.   198.  18.   246. 1646.   198.   0. 276.6  77.5 230.8   0.0 -1  0  0  0  0  0  0  10.561  3  0  5   0
156  3 14  22.4 1332.   916.  17.   249. 1334.   916.  17.  30.6  16.6  30.6   0.0  0 -1  0  0  0  0  0   0.0    5  0  7   0
157  3 14  47.1  908.  -158.  18.   -69. 1084.     2.   0. 141.3  21.0 140.9   0.0 -1  0  0  0  0  0  0   1.046  3  0  5   0
158  3 14  49.1  877.  -129.  13.   -27. 1102.  -150.   4. 171.9  13.5 171.9   0.0  0 -1  0  0  0  0  0   0.0    3  0  5   0
159 26  8  26.1  554.     5.  11.   310.  570.    -7.   0.  48.4  10.8  48.4   0.0 -1  0  0  0  0  0  0   8.490  4  0  4   0
160  3 14  65.6  852.    73.  10.   116.  917.    31.   0. 145.6  10.3 145.3   0.0 -1  0  0  0  0  0  0   1.539  3  0  5   0
161  3 14  35.4 1594.   503.  19.  -211. 1184.   648.   0. 171.1  24.7 141.9   0.0 -1  0  0  0  0  0  0   1.790  3  0  6   0
162  3 15  28.9 1121.   277.  21.    27. 1105.   273.   0.  39.1  21.3  39.1   0.0 -1 26  0  0  0  0  0   0.115  4  0  1   0
163 26  8  22.5  410.    18.  11.   433.  420.     3.   0.  46.6  10.8  46.6   0.0 -1  0  0  0  0  0  0   8.514  4  0  4   0
164  3 14  69.1 1350.  1244.  18.   435. 1327.  1115.   0. 139.7  17.6 138.0   0.0 -1  0  0  0  0  0  0   8.462  4  0  7   0
165  3 14  54.0  632.    59.  18.   282. 1140.  -134.  65. 230.6  64.8 214.5   0.0  0 -1  0  0  0  0  0   0.0    3  0  3   0
166 26  9  32.3  436.  -328.  14.   201.  491.  -345.   0.  96.3  14.3  96.3   0.0 -1  0  0  0  0  0  0   0.351  4  0  4   0
167  3 15  24.0 2160.  1050.  32.  -326. 2135.  1080.   0.  61.5  31.9  61.5   0.0 -1  0  0  0  0  0  0   0.113  4  0 13   0
168 25  1   1.3 1877.  -335.  13.  -946. 1875.  -328.   0.  31.9  13.0  31.9   0.0 -1  0  0  0  0  0  0   1.650  4  0  6   0
169 26  9  29.0  551.   -16.   6.   301.  572.   -27.   0.  66.0   6.1  66.0   0.0 -1  0  0  0  0  0  0   0.604  4  0  4   0
170 14 13  15.0 1000.   -74.  21.   -92. 1040.   -52.   0.  73.8  20.5  73.8   0.0 -1  0  0  0  0  0  0   0.460  4  0  5   0
171  3 15  28.5 1167.   292.  22.    -0. 1157.   288.   0.  37.6  22.3  37.6   0.0 -1  0  0  0  0  0  0   0.111  4  0  1   0
172 26  9  26.1  381.  -233.  11.   303.  420.  -254.   0.  87.4  10.9  87.4   0.0 -1  0  0  0  0  0  0   0.423  4  0  4   0
173 26  9  26.3  594.  -104.   7.   213.  623.  -109.   0.  76.3   6.5  76.3   0.0 -1  0  0  0  0  0  0   2.913  4  0  4   0
174 14 11  39.4 1173.  1598.  16.   790. 1173.  1598.   0.  31.7  15.8  31.7   0.0 -1  0  0  0  0  0  0   0.071  4  0 14   0
175  3 16  14.6 1204.  1560.  14.   743. 1207.  1556.   0.  30.0  13.6  30.0   0.0 -1  0  0  0  0  0  0   0.082  4  0 14   0
176  8  7   4.0 1196.   446.  12.    71. 1198.   445.   0.  26.1  11.4  26.1   0.0 -1  0  0  0  0  0  0   0.558  4  0  1   0
177  3 14  33.2  312.   402.  15.   744.  366.   319.   0.  91.6  15.0  91.4   0.0 -1  0  0  0  0  0  0   2.095  3  0  1   0
178  3 14  46.8  247.   636.  18.   938.  259.   596.   0.  52.5  17.6  52.3   0.0 -1  0  0  0  0  0  0   0.828  4  0  2   0
179  3 14  62.3 1317.  1111.  22.   380. 2892.  1103.   0. 282.1 155.5 147.2   0.0 -1  0  0  0  0  0  0  14.678  3  0  7   0
180 25  1   2.2  442.   894.  12.   941.  442.   891.   0.  27.8  11.8  27.8   0.0 -1  0  0  0  0  0  0   1.766  4  0  8   0
181 26  9  33.5  534.  -145.  14.   235.  590.  -162.   0.  99.9  13.8  99.9   0.0 -1  0  0  0  0  0  0   0.358  4  0  4   0
182 25  1   4.0  862.  -151.  11.   -29.  877.  -154.   0.  42.4  11.2  42.4   0.0 -1  0  0  0  0  0  0   0.368  4  0  5   0
183 25  1   3.2  307.   108.  15.   569.  319.   105.   0.  35.2  14.5  35.2   0.0 -1  0  0  0  0  0  0   0.306  4  0  3   0
184  3 10  48.0  627.   826.  18.   757.  626.   826.   0.  34.5  17.7  34.5   0.0 -1  0  0  0  0  0  0   0.068  4  0  8   0
185 26  9  45.6  321.   -12.  13.   486.  334.   -50.   0.  77.9  12.8  77.9   0.0 -1  0  0  0  0  0  0   1.891  5  0  4   0
186 26  9  29.6  405. -1029.  35.  -201.  568.  -910.   0. 166.8  34.6 166.8   0.0 -1  0  0  0  0  0  0   0.177  4  0 12   0
187  3 15  12.8  469.   271.  16.   540.  473.   258.   0.  37.6  16.1  37.6   0.0 -1  0  0  0  0  0  0   0.696  4  0  1   0
188  8  7   4.0  292.   423.  12.   773.  292.   423.   0.  27.1  11.5  27.1   0.0 -1  0  0  0  0  0  0   0.555  4  0  1   0
189 26  9  37.1  272.  -150.   9.   440.  284.  -178.   0.  69.0   8.5  69.0   0.0 -1  0  0  0  0  0  0   0.996  4  0  4   0
190 26  9  45.9 1604. -1293.  28. -1313. 1609. -1269.   0.  50.4  27.9  50.4   0.0 -1  0  0  0  0  0  0   0.266  5  0 12   0
191  3 16  10.5 2369.   550.  32.  -796. 2365.   563.   0.  47.1  31.4  47.1   0.0 -1  0  0  0  0  0  0   0.015  5  0 13   0
```

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192  [●]    4.0  482.   273.    6.  531.  482.   272.   0.  19.4   5.9  [●]    0.0 -1  0  0  0  0  0  0   4.176  4  0  1   0
193  .     71.0 2037.   785.   18. -390. 1972.   823.   0. 145.5  17.7 1[●]   0.0 -1  0  0  0  0  0  0   1.669  5  0  7   0
194  3 14  69.1  435.   671.   21.  811.  435.   667.  22.  19.3  21.8  1[●]  7.2 85 16  0  0  0  0  0   0.722  3  0  2   6
194  3 14  69.1  435.   671.   21.  811.  441.   667.  26.  19.3  25.8  11.7  5.6 85 16  0  0  0  0  0   0.722  3  0  2   7
195  3 14  32.0  532.   173.   24.  431.  575.   150.   0. 122.3  23.4 121.8  0.0 -1  0  0  0  0  0  0   1.903  5  0  3   0
196  3 16  13.8 1226.   558.   21.  115. 1209.   556.   0.  40.5  21.2  40.5  0.0 -1  0  0  0  0  0  0   0.078  4  0  2   0
197 26  9  33.5  298.  -273.    9.  344.  326.  -296.   0.  77.5   9.0  77.5  0.0 -1  0  0  0  0  0  0   4.817  4  0  4   0
198 14 13  48.5  933.  -179.   14. -102.  969.  -159.   0.  66.3  14.0  66.3  0.0 -1  0  0  0  0  0  0   0.594  4  0  5   0
199  3 14  76.6  495.    66.   25.  395.  666.   -62.   0. 177.0  26.0 177.0  0.0 -1  0  0  0  0  0  0   1.851  3  0  3   0
200  3 14  76.1  195.  -624.   35.  212. 1067.  -131.   0. 261.1  57.7 233.8  0.0 -1  0  0  0  0  0  0   2.941  3  0 11   0
201  3 16  14.8 2041.   565.   16. -528. 2040.   573.   0.  43.8  15.2  43.8  0.0 -1  0  0  0  0  0  0   0.784  5  0  6   0
202 14 13  41.3 1003.    31.   19.  -30.  979.    39.   0.  48.3  19.3  48.3  0.0 -1 26  0  0  0  0  0   2.402  4  0  5   0
203  2  4  25.4 1173.  -208.   10. -310. 1181.  -201.   0.  38.9  10.0  38.9  0.0 -1 17  0  0  0  0  0   4.208  5  0  5   0
204 14 11  39.3  748.   715.   12.  589.  744.   709.   0.  30.2  12.2  30.2  0.0 -1 17  0  0  0  0  0   3.904  4  0  2   0
205 25  1   1.0  798.   834.   11.  622.  798.   830.   0.  28.0  11.3  28.0  0.0 -1  0  0  0  0  0  0   0.364  4  0  8   0
206 26  9  35.4  390.  -309.   12.  249.  440.  -323.   0.  96.4  12.1  96.4  0.0 -1  0  0  0  0  0  0   1.971  4  0  4   0
207 26  8  37.7  362.  -268.   12.  297.  362.  -268.  12.   7.0  12.3   7.0  0.0  0 -1  0  0  0  0  0   0.0    4  0  4   0
208  1  6 957.1 1179.  -216.   11. -320. 1153.  -181.   0.  75.7  11.1  75.7  0.0 -1  0  0  0  0  0  0   0.686  4  0  5   0
209  3 14  46.0 1109.   381.   17.   99. 1094.   374.  17.  80.4  16.8  80.4 20.4  7  3  *  *  *  *  *   9.551  3  0  1   8
209  3 14  46.0 1109.   381.   17.   99. 1091.   381.  19.  82.0  19.3  82.0 37.8  7  3  0  0  0  0  0   0.955  3  0  1   8
209  3 14  46.0 1109.   381.   17.   99. 1106.   382.   0.  31.5  16.6  31.5  0.0 -1 18  0  0  0  0  0   0.955  3  0  1   8
209  3 14  46.0 1109.   381.   17.   99. 1094.   375.  27.  67.5  26.6  67.5 18.5  7  3  0  0  0  0  0   0.955  3  0  1   8
209  3 14  46.0 1109.   381.   17.   99. 1104.   371.   0.  52.9  16.4  52.9  0.0 -1 18  0  0  0  0  0   0.955  3  0  1   8
209  3 14  46.0 1109.   381.   17.   99. 1088.   386.   9.  82.0  16.5  82.0  3.8  7  3  0  0  0  0  0   0.955  3  0  1   8
209  3 14  46.0 1109.   381.   17.   99. 1093.   376.  16.  80.2  16.8  80.2 21.1  7  3  0  0  0  0  0   0.955  3  0  1   8
209  3 14  46.0 1109.   381.   17.   99. 1094.   375.  13.  80.2  16.5  80.2 19.6  7  3  0  0  0  0  0   0.955  3  0  1   8
209  3 14  46.0 1109.   381.   17.   99. 1080.   395.  15.  81.5  16.8  81.5 48.5  7  3  0  0  0  0  0   0.955  3  0  1   8
209  3 14  46.0 1109.   381.   17.   99. 1093.   376.  17.  80.3  16.8  80.3 21.5  7  3  0  0  0  0  0   0.955  3  0  1   8
209  3 14  46.0 1109.   381.   17.   99. 1091.   380.  21.  78.3  21.3  78.3 38.2  7  3  0  0  0  0  0   0.955  3  0  1   8
209  3 14  46.0 1109.   381.   17.   99. 1088.   399.  21.  78.3  23.4  58.4 25.0 72 14  0  0  0  0  0   0.955  3  0  1   8
210 25  1   1.0 1208.  -120.    8. -284. 1242.   -80.   1.  80.9   8.2  80.9  0.0  0 -1  0  0  0  0  0   0.0    4  0  5   0
211 26  9  21.3  591.    38.   15.  302.  634.     6.   0.  89.6  14.6  89.6  0.0 -1  0  0  0  0  0  0   1.724  4  0  4   0
212 26  9  45.0  604.  -114.   14.  198.  665.  -127.   0. 102.8  14.2 102.8  0.0 -1  0  0  0  0  0  0   0.351  4  0  4   0
213 25  1   3.0  623.  -630.   30. -132.  679.  -621.   0.  84.9  29.8  84.9  0.0 -1  0  0  0  0  0  0   0.402  4  0 12   0
214 14 13  24.8 1187.   120.   15. -121. 1189.   129.   0.  33.1  15.2  33.1  0.0 -1  0  0  0  0  0  0   0.564  4  0  5   0
215  3 14  60.5  820.   207.   10.  223.  849.   202.   0. 107.0   9.1 107.0  0.0 -1  0  0  0  0  0  0  13.327  5  0  1   0
216  1  6 622.8  826.   -53.   11.   59. 1003.   -41.   0. 107.6  19.4 107.6  0.0 -1  0  0  0  0  0  0   0.572  3  0  5   0
217  3 14  43.2 1148.   995.   11.  443. 1229.   702.   0. 176.3  23.0 176.3  0.0 -1  0  0  0  0  0  0   1.764  3  0  8   0
218  3 14  33.0 1509.   141.   14. -364. 1510.   143.  13.  44.0  13.5  44.0  0.0  0 -1  0  0  0  0  0   0.0    5  0  6   0
219  3 14  63.4  942.   510.    8.  311.  932.   496.   6.  75.6   8.3  75.6 13.2 97 18  0  0  0  0  0   1.282  4  0  2   9
219  3 14  63.4  942.   510.    8.  311.  921.   505.   0.  75.6   8.3  37.3  0.0 -1 18  0  0  0  0  0   1.282  4  0  2   9
220 26  8  35.3  558.  -323.   12.  107.  582.  -325.   0.  53.9  12.2  53.9  0.0 -1  0  0  0  0  0  0  39.170  4  0  4   0
221  3 14  35.0  822.   790.   24.  577.  788.   745.   0.  70.6  23.7  70.6  0.0 -1  0  0  0  0  0  0   5.196  4  0  8   0
222  1  6 479.4 1227.  -133.   21. -307. 1299.   -50.   0. 110.9  21.5 110.9  0.0 -1  0  0  0  0  0  0   0.180  3  0  5   0
223  3 14  49.8  404.   309.   21.  615.  461.   151.   0. 101.1  27.3 100.4  0.0 -1  0  0  0  0  0  0   1.620  3  0  1   0
224  1  6 120.1  837.  -327.    9. -116.  904.  -271.   0.  90.0   9.4  90.0  0.0 -1  0  0  0  0  0  0   0.773  3  0  5   0
225  1  6 651.8 1160.    26.   24. -157. 1004.    87.   0. 121.3  26.3 121.3  0.0 -1 26  0  0  0  0  0   0.084  3  0  5   0
226  3 15  10.2 1218.  1591.    8.  751. 1219.  1590.   0.  22.5   8.2  22.5  0.0 -1  0  0  0  0  0  0   0.081  4  0 14   0
227  3 16  18.5 2034.   676.   24. -454. 2025.   689.   0.  48.4  23.9  48.4  0.0 -1  0  0  0  0  0  0   0.577  5  0  6   0
228  3 14  75.4 1246.   243.   23.  -93. 1063.   294.  26. 162.7  28.7 162.7 123.5 7  3  *  *  *  *  *   7.751  3  0  1  10
228  3 14  75.4 1161.   268.   28.  -93. 1056.   291.  26. 176.2  28.5 176.2  0.2  7  3  0  0  0  0  0   0.775  3  0  1  10
228  3 14  75.4 1161.   268.   28.  -93. 1052.   290.  25. 173.0  28.4 173.0 37.5  7  3  0  0  0  0  0   0.775  3  0  1  10
228  3 14  75.4 1161.   268.   28.  -93. 1065.   295.  25. 165.5  28.4 165.5 101.7 7  3  0  0  0  0  0   0.775  3  0  1  10
228  3 14  75.4 1161.   268.   28.  -93. 1062.   293.  30. 166.0  29.6 166.0 44.9  7  3  0  0  0  0  0   0.775  3  0  1  10
228  3 14  75.4 1161.   268.   28.  -93. 1060.   292.  23. 174.3  28.3 174.3 60.5  7  3  0  0  0  0  0   0.775  3  0  1  10
228  3 14  75.4 1161.   268.   28.  -93. 1056.   291.  21. 163.6  28.3 163.6 23.2  7  3  0  0  0  0  0   0.775  3  0  1  10
228  3 14  75.4 1161.   268.   28.  -93. 1056.   291.  28. 154.7  28.8 154.2  0.2  7  3  0  0  0  0  0   0.775  3  0  1  10
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229 14 13  15.3 1029.  -258.   24. -226. 1067.  -218.   0.  73.4  24.1  73.4  0.0 -1  0  0  0  0  0  0   2.048  4  0  5   0
230 26  8  43.3  547.   -33.    9.  294.  561.   -41.   0.  45.4   8.8  45.4  0.0 -1  0  0  0  0  0  0   9.717  4  0  4   0
231  3 14  39.4  948.  1119.   16.  677.  968.  1063.   0.  82.7  15.7  82.7  0.0 -1  0  0  0  0  0  0   1.384  4  0  8   0
232  3 14  79.1 2230.  -791.   40.-1503. 2255.  -757.  26.  54.7  39.8  54.7  0.0  0 -1  0  0  0  0  0   0.0    4  0 13   0
233 25  1   1.6 1936.  -449.   29.-1062. 1936.  -430.   0.  46.0  28.8  46.0  0.0 -1  0  0  0  0  0  0   0.431  4  0 12   0
234 26  9  28.8  439.  -323.   11.  202.  486.  -332.   0.  93.8  10.8  93.8  0.0 -1  0  0  0  0  0  0   2.133  4  0  4   0
235 26  9  46.8  239.     8.    5.  562.  239.     7.   5.   8.3   5.0   8.3  0.0  0 -1  0  0  0  0  0   0.0    5  0  4   0
236  3 14  39.1 1092.  1187.   13.  604. 1111.  1043.   0. 113.5  13.8 112.2  0.0 -1  0  0  0  0  0  0   1.559  3  0  8   0
237  3 15  24.5 1370.   968.   17.  250. 1371.   968.  16.   4.9  16.5   4.9  0.0  0 -1  0  0  0  0  0   0.0    4  0  7   0
238  3 14  57.8  826.   274.   10.  259.  913.   268.   0. 150.7   9.7 150.7  0.0 -1  0  0  0  0  0  0   2.646  4  0  1   0
239 25  1   1.7 1318.    94.    8. -241. 1318.    94.   8.   9.6   7.5   9.6  0.0  0 -1  0  0  0  0  0   0.0    4  0  6   0
240  1  6 552.8 1134.  -210.   20. -280. 1238.  -166.   0. 126.2  19.6 126.2  0.0 -1  0  0  0  0  0  0   0.192  4  0  5   0
241  3 14  62.6  251.   104.    9.  612.  269.   111.   0.  45.4   8.7  45.4  0.0 -1  0  0  0  0  0  0  17.953  4  0  3   0
```

```
242 25  1    2.9 1434.   929.  10.  176. 1419.  916.   0.  42.0 10.4  42.0   0.0 -1  0  0  0  0  0  0    1.936  4  0  7   0
243 26  8   22.6  685.  -258.  12.   47.  707. -255.   0.  52.1 11.8  52.1   0.0 -1  0  0  0  0  0  0   18.890  4  0  5   0
244  1  6  285.9 1104.   -94.  21. -186. 1077.  -66.   0.  58.8 20.9  58.8   0.0 -1  0  0  0  0  0  0    0.092  3  0  5   0
245 26  8   48.8  555.  -233.  11.  164.  578. -237.   0.  54.5 11.1  54.5   0.0 -1  0  0  0  0  0  0    8.329  4  0  4   0
246  3 14   70.6 1610.  1410.  22.  329. 1578. 1234.   0. 145.2 21.6 142.1   0.0 -1  0  0  0  0  0  0    7.372  4  0  7   0
247  3 15   35.0  411.   911.  11.  977.  411.  909.   0.  25.7 10.7  25.7   0.0 -1  0  0  0  0  0  0    0.728  4  0  8   0
248  3 14   75.9  877.  -181.  13.  -59. 1414.  949.   0. 294.5 98.6 191.8   0.0 -1  0  0  0  0  0  0    2.566  3  0  5   0
249  3 14   25.8  853.  1183.  24.  792.  914. 1139.   0.  82.5 24.1  82.5   0.0 -1  0  0  0  0  0  0    5.146  4  0  8   0
250  1  6  258.7  516.   973.  23.  931.  525.  972.   0.  37.1 23.3  37.1   0.0 -1  0  0  0  0  0  0    0.025  4  0  8   0
251  3 14   37.8 1055.  -200.  25. -211. 1354.  269.  23. 216.8 52.6 178.5   0.0  0 -1  0  0  0  0  0    0.0    3  0  5   0
252  3 14   29.3  108. -1518.  30. -264.  269. -877.   0. 241.0 30.4 137.9   0.0 -1  0  0  0  0  0  0    9.224  3  0 11   0
253  3 15   10.6 1083.  1114.  14.  566. 1087. 1104.   0.  31.7 14.0  31.7   0.0 -1  0  0  0  0  0  0    3.111  4  0  8   0
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254  3 14   24.0 1198.   540.  15.  126.  944.  496.  12. 154.2 40.7 154.2   0.2 97 18  *  *  *  *  *    0.919  3  0  2  11
254  3 14   24.0 1031.   519.  35.  126.  930.  496.  13. 158.3 33.0 158.3  48.4 97 18  0  0  0  0  0    0.092  3  0  2  11
254  3 14   24.0 1031.   519.  35.  126.  966.  496.  19. 159.7 32.9 159.7  20.6 97 18  0  0  0  0  0    0.092  3  0  2  11
254  3 14   24.0 1031.   519.  35.  126.  971.  496.  27. 150.6 33.3 150.6  15.5 97 18  0  0  0  0  0    0.092  3  0  2  11
254  3 14   24.0 1031.   519.  35.  126.  922.  496.   7. 142.6 33.0 142.6   0.1 97 18  0  0  0  0  0    0.092  3  0  2  11
254  3 14   24.0 1031.   519.  35.  126.  957.  496.  13. 149.8 32.9 149.8   0.1 97 18  0  0  0  0  0    0.092  3  0  2  11
254  3 14   24.0 1031.   519.  35.  126.  925.  496.   6. 144.6 33.0 144.6  68.5 97 18  0  0  0  0  0    0.092  3  0  2  11
254  3 14   24.0 1031.   519.  35.  126.  964.  496.  23. 134.9 33.2 119.9  16.5 97 18  0  0  0  0  0    0.092  3  0  2  11
254  3 14   24.0 1031.   519.  35.  126.  962.  496.  23. 167.5 33.1 167.5   7.9 97 18  0  0  0  0  0    0.092  3  0  2  11
254  3 14   24.0 1031.   519.  35.  126.  961.  496.  25. 135.5 33.3 122.8  66.1 97 18  0  0  0  0  0    0.092  3  0  2  11
254  3 14   24.0 1031.   519.  35.  126.  971.  496.  27. 154.2 33.3 154.2  14.1 97 18  0  0  0  0  0    0.092  3  0  2  11
254  3 14   24.0 1031.   519.  35.  126.  950.  496.  24. 154.2 33.3 140.3  10.7 97 18  0  0  0  0  0    0.092  3  0  2  11
255 25  1    3.0  920.    -3.  11.   16.  950.   12.   0.  54.8 10.7  54.8   0.0 -1  0  0  0  0  0  0    1.907  4  0  5   0
256 26  8   28.5  260.  -323.  14.  344.  281. -339.   0.  55.9 13.5  55.9   0.0 -1  0  0  0  0  0  0   14.521  4  0  4   0
257  3 14   63.8  385.   264.  23.  602.  392.  151.   0. 124.7 23.0 122.5   0.0 -1  0  0  0  0  0  0    7.620  4  0  1   0
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259 26  8   21.3 2506.  -271.  30.-1405. 2509. -259.   0.  45.0 29.8  45.0   0.0 -1  0  0  0  0  0  0   31.126  5  0 13   0
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261 26  8   41.0  432.  -909.  33. -149.  517. -864.   0. 106.4 32.9 106.4   0.0 -1  0  0  0  0  0  0   38.469  4  0 12   0
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263 25  1    3.7 1304. -1097.  31. -956. 1314.-1082.   0.  43.9 30.7  43.9   0.0 -1  0  0  0  0  0  0    0.379  4  0 12   0
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266  3 14   41.8  571.   134.  12.  376.  643.  104.   0. 124.4 11.6 124.4   0.0 -1  0  0  0  0  0  0    3.065  4  0  3   0
267  3 14   61.3  625.   261.  16.  411. 1550. -166. 143. 274.6 143.3 260.4  0.0  0 -1  0  0  0  0  0    0.0    3  0  1   0
268  2  4   35.4 2036.   906.  10. -315. 2027.  917.   0.  39.0  9.5  39.0   0.0 -1  0  0  0  0  0  0    6.741  4  0  7   0
269 26  9   32.0  496.  -271.   8.  189.  531. -276.   0.  81.7  7.7  .1.7   0.0 -1  0  0  0  0  0  0    0.528  4  0  4   0
270  8  7    4.0  288.   280.  14.  689.  289.  279.   0.  29.5 14.0  29.5   0.0 -1  0  0  0  0  0  0    0.483  4  0  1   0
271  1  6  772.1  916.  -122.  23.  -54.  878. -121.   0.  46.7 23.2  46.7   0.0 -1  0  0  0  0  0  0    0.426  3  0  5   0
272 14 11   34.2  360.   581.   9.  816.  360.  578.   0.  24.9  8.8  24.9   0.0 -1 16  0  0  0  0  0    0.933  5  0  2   0
273 26  9   21.3  382.  -317.   7.  251.  409. -327.   0.  74.0  6.7  74.0   0.0 -1  0  0  0  0  0  0    0.572  4  0  4   0
274  3 14   26.8  375.   273.  20.  616.  379.   76.   0. 138.2 21.1 136.1   0.0 -1  0  0  0  0  0  0    8.505  3  0  1   0
275  3 16    5.5 2744.  1705.  34. -390. 2744. 1705.  34.   7.2 34.0   7.2   0.0  0 -1  0  0  0  0  0    0.0    5  0 13   0
276  1  6  351.4 2720.  1366.  32. -578. 2741. 1381.   0.  68.5 31.8  68.5   0.0 -1  0  0  0  0  0  0    0.302  5  0 13   0
277  3 16    5.7 2154.  1088.  42. -298. 2154. 1088.  42.   7.1 42.2   7.1   0.0  0 -1  0  0  0  0  0    0.0    5  0 13   0
278  3 14   30.2 2365.   645.  33. -735. 2346.  675.   0.  90.2 32.2  90.2   0.0 -1  0  0  0  0  0  0    0.478  5  0 13   0
279 26  9   40.8  400.  -198.   8.  310.  423. -214.   0.  68.8  7.4  68.8   0.0 -1  0  0  0  0  0  0    5.432  4  0  4   0
280 26  8   26.2  255.   -58.  10.  509.  260.  -71.   0.  39.7  9.7  39.7   0.0 -1  0  0  0  0  0  0   91.313  5  0  4   0
281  3 14   24.5  525.    69.  21.  373.  965. -21c.  19. 250.6 24.2 250.6   0.0  0 -1  0  0  0  0  0    0.0    3  0  3   0
282  1  6  195.0  767.  -315.  15.  -53.  811. -329.   0.  71.4 14.9  71.4   0.0 -1  0  0  0  0  0  0    0.230  4  0  5   0
283  3 14   48.7 1163.   429.  11.   86. 1224.  422.   3. 119.0 10.7 119.0  49.6151 28  0  0  0  0  0    2.508  4  0  1  12
283  3 14   48.7 1163.   429.  11.   86. 1218.  421.   0. 119.0 10.7  50.7   0.0 -1 28  0  0  0  0  0    2.508  4  0  1  12
284  3 15   33.5  837.   251.  12.  236.  848.  251.   0.  33.3 11.4  33.3   0.0 -1  0  0  0  0  0  0    0.863  4  0  1   0
285 25  1    4.0  682.  1241.  10.  962.  685. 1241.   0.  24.3 10.1  24.3   0.0 -1  0  0  0  0  0  0    0.393  4  0  8   0
286 26  9   46.0  361. -1207.  30. -275.  483.-1097.   0. 159.5 29.4 159.5   0.0 -1  0  0  0  0  0  0    0.239  4  0 12   0
287 26  9   28.6  352.  -627.  26.   86.  474. -630.   0. 129.2 25.5 129.2   0.0 -1  0  0  0  0  0  0    0.327  4  0 12   0
288 14 13   18.8  908.   -91.  24.  -29.  906.  -89.   0.  37.0 23.7  37.0   0.0 -1  0  0  0  0  0  0    2.076  4  0  5   0
289  1  6  625.0 1030.    62.  24.  -32. 1102.   45.   0.  81.7 26.3  81.7   0.0 -1 26  0  0  0  0  0    0.083  3  0  5   0
290 26  8   30.8  547.   -47.  12.  284.  570.  -58.   0.  55.0 12.3  55.0   0.0 -1  0  0  0  0  0  0    7.776  4  0  4   0
291  3 15   35.2 1390.  1557.  21.  594. 1390. 1557.  21.   3.1 21.0   3.1   0.0  0 -1  0  0  0  0  0    0.0    3  0  5   0
292  3 14   44.2 1139.  -164.  19. -256. 1467.  428.  77. 277.3 77.4 220.9   0.0  0 -1  0  0  0  0  0    0.0    3  0  5   0
293 26  8   44.0  456.   -52.   9.  354.  469.  -61.   0.  45.5  8.9  45.5   0.0 -1  0  0  0  0  0  0   48.178  4  0  4   0
294  3 14   54.6 -565.  -765.  40.  729. -565. -765.  40.  15.1 40.1  15.1   0.0 -1  0  0  0  0  0  0    0.0    4  0 11   0
295 26  9   38.1  556.   -28.   6.  289.  577.  -40.   0.  64.7  6.2  64.7   0.0 -1  0  0  0  0  0  0    2.997  4  0  4   0
296  1  6  296.9  696.  -262.  23.   35.  769. -306.   0.  72.8 23.4  72.8   0.0 -1  0  0  0  0  0  0    0.169  4  0  5   0
297  2  4   17.3 1238.  -305.   9. -421. 1238. -305.   0.  24.3  9.1  24.3   0.0 -1  0  0  0  0  0  0    4.495  4  0  5   0
298  3 15   17.5  945.   877.  16.  532.  951.  863.   0.  37.4 16.4  37.4   0.0 -1  0  0  0  0  0  0    0.562  4  0  8   0
299  3 15   19.9  325.   300.  12.  672.  324.  299.   0.  28.1 12.1  28.1   0.0 -1  0  0  0  0  0  0    0.831  5  0  1   0
300 26  8   31.8  643.   -80.  15.  188.  673.  -87.   0.  61.3 14.7  61.3   0.0 -1  0  0  0  0  0  0    6.838  4  0  4   0
301  3 14   58.0  872.  -247.  20.  -95. 1056. -248.  54. 211.8 54.5 211.8   0.0  0 -1  0  0  0  0  0    0.0    3  0  5   0
302  1  6  684.9  728.   -80.  17.  121.  685.  -98.   0.  70.5 17.4  70.5   0.0 -1  0  0  0  0  0  0    0.519  4  0  5   0
```

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304  2  4 29.6  724.  241. 12.  319.  721.  231.  0.  32.4 11.6  32.4  0.0 -1  4  0  0  0  0  0   2.776  4  0  1   0
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306  3 10 48.0 2228. 1156. 32. -315. 2273. 1162.  0.  71.9 31.8  71.9  0.0 -1  0  0  0  0  0  0   0.028  4  0 13   0
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308  3 17  4.3 2067. -822. 29.-1393. 2068. -818.  0.  42.7 29.0  42.7  0.0 -1  0  0  0  0  0  0   0.034  4  0 13   0
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317  3 14 35.3  741.   33. 17.  180. 1114.  -59.  0. 171.2 16.7 171.1  0.0 -1  0  0  0  0  0  0   1.101  4  0  5   0
318  1  6 862.6 1042.   92. 23.  -23. 1079.  100. 14.  82.3 23.0  82.3 41.5140 26  0  0  0  0  0   0.427  4  0  5  13
318  1  6 862.6 1042.   92. 23.  -23. 1116.   98.  0.  82.7 23.0  82.7  0.0 -1 26  0  0  0  0  0   0.427  4  0  5  13
319 26  9 41.8  363. -199. 15.  338.  408. -234.  0.  93.8 14.6  93.8  0.0 -1  0  0  0  0  0  0   0.690  4  0  4   0
320  3 14 36.6  935.    1. 24.    6.  739. -130.  0.  99.4 34.6  98.7  0.0 -1  0  0  0  0  0  0   4.239  3  0  5   0
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328  3 15 39.1 1206. 1581. 25.  754. 1214. 1576.  0.  40.1 24.4  40.1  0.0 -1  0  0  0  0  0  0   0.041  4  0 14   0
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365  3 14 56.1 1045.   67. 22.  -41. 1006.   78.  0.  80.4 21.8  80.4  0.0 -1 26  0  0  0  0  0   4.565  4  0  5  14
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386 26  8  45.9  210. -228.   8.  442.  216. -239.   0.  39.2   7.7  39.2   0.0 -1  0  0  0  0  0  0  0  105.221 4  0  4    0
387 26  9  49.0 2142.  263.  31. -791. 2142.  263.  31.   8.3  30.8   8.3   0.0  0 -1  0  0  0  0  0  0    0.0   5  0 13    0
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391 26  8  37.5  259.  -58.  14.  506.  265.  -77.   0.  48.1  14.1  48.1   0.0 -1  0  0  0  0  0  0  0   70.610 5  0  4    0
392 26  8  44.4  396. -261.  11.  274.  417. -269.   0.  53.0  10.9  53.0   0.0 -1  0  0  0  0  0  0  0    8.460 4  0  4    0
393  3 14  48.1 2421. 1196.  43. -444. 2321. 1259.   0. 161.7  42.8 161.7   0.0 -1  0  0  0  0  0  0  0    0.319 5  0 13    0
394  3 15  14.6 2018. 1189.  18. -128. 2001. 1195.   0.  43.9  17.4  43.9   0.0 -1  0  0  0  0  0  0  0    0.474 4  0  7    0
395  3 14  32.7  881.  809.  20.  541.  849.  743.   0.  84.1  19.5  83.2   0.0 -1  0  0  0  0  0  0  0    5.986 4  0  8    0
396 26  8  42.2  575.   34.  13.  311.  594.   20.   0.  52.0  12.6  52.0   0.0 -1  0  0  0  0  0  0  0    7.633 4  0  4    0
397  3 15  29.2 1102.  600.  14.  239. 1118.  597.   0.  42.3  13.8  42.3   0.0 -1  0  0  0  0  0  0  0    1.344 4  0  2    0
398  1  6 121.5  957.  863.  25.  514.  931.  842.   0.  52.8  24.8  52.8   0.0 -1  0  0  0  0  0  0  0    0.120 4  0  8    0
399  3 14  35.2 -794.-1156.  35.  672. -752.-1295.   0. 118.5  34.5 117.9   0.0 -1  0  0  0  0  0  0  0    2.933 4  0 11    0
400  3 14  76.2 2425.   -5.  43.-1179. 2426.   -5.  43.   8.8  42.6   8.8   0.0  0 -1  0  0  0  0  0  0    0.0   4  0 13    0
401  3 15  14.0 1416. 1461.  12.  515. 1422. 1459.   0.  32.4  11.5  32.4   0.0 -1  0  0  0  0  0  0  0    6.126 5  0  7    0
402  1  6 381.6 2791.  611.  34.-1094. 2791.  611.  34.   3.8  33.7   3.8   0.0 -1  0  0  0  0  0  0  0    0.0   5  0 13    0
403 14 11  81.0 2467.  793.  44. -726. 2453.  802.   0.  56.3  44.0  56.3   0.0 -1  0  0  0  0  0  0  0    0.119 5  0 13    0
404 26  9  37.5  296. -206.   6.  387.  296. -207.   6.  11.8   6.0  11.8   0.0  0 -1  0  0  0  0  0  0    0.0   4  0  4    0
405  3 16  10.2 2084.  898.  41. -358. 2053.  944.   0.  69.8  41.2  69.8   0.0 -1  0  0  0  0  0  0  0    0.010 4  0 13    0
406  3 14  61.0 1123. -323.  22. -340. 1270. -162.   0. 214.8  21.8 209.9   0.0 -1  0  0  0  0  0  0  0    4.558 4  0  5    0
407  3 14  48.6 1838.  236.   9. -567. 1920.  644.   0. 230.6  30.6 230.5   0.0 -1  0  0  0  0  0  0  0   27.761 3  0  6    0
408  3  5   2.0  388.  304.  25.  625.  383.  298.   0.  39.3  24.4  39.3   0.0 -1  0  0  0  0  0  0  0    2.628 4  0  1    0
409 26  8  20.8  469. -160.  14.  277.  496. -171.   0.  60.1  13.7  60.1   0.0 -1 27  0  0  0  0  0  0   36.019 4  0  4    0
410  3 14  59.7 1238.   12.   9. -228. 1228.   95.   0.  86.8  10.6  86.8   0.0 -1  0  0  0  0  0  0  0    1.624 3  0  5    0
411  3 14  70.4 1226. 1676.  19.  796. 1238. 1672.   0.  51.8  18.2  51.8   0.0 -1  0  0  0  0  0  0  0    4.043 5  0 14    0
412  3 14  78.2  212.   51.  23.  610.  293.  -21.   0. 113.7  22.5 112.3   0.0 -1  0  0  0  0  0  0  0    1.995 4  0  3    0
413 26  8  39.5  391. -223.  12.  300.  392. -224.  12.   6.8  12.1   6.8   0.0  0 -1  0  0  0  0  0  0    0.0   4  0  4    0
414  1  6 314.9  502.  964.  16.  937.  509.  962.   0.  32.1  16.0  32.1   0.0 -1  0  0  0  0  0  0  0    0.033 4  0  8    0
415 14 13  16.3  953. 1581.  25.  955.  958. 1580.   0.  39.7  24.8  39.7   0.0 -1  0  0  0  0  0  0  0    0.373 4  0 14    0
416 26  9  27.8  292.  -73.   6.  471.  292.  -73.   6.  11.2   6.0  11.2   0.0  0 -1  0  0  0  0  0  0    0.546 4  0  2    0
417 14 11  66.2  713.  749.  21.  638.  703.  742.   0.  37.2  21.1  37.2   0.0 -1  0  0  0  0  0  0  0    0.931 3  0  5    0
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422  3 16  18.5 2427.  672.  44. -768. 2440.  690.   0.  53.7  43.5  53.7   0.0 -1  0  0  0  0  0  0  0    0.146 4  0  8    0
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424 26  9  31.9  241. -294.   7.  376.  242. -295.   7.  13.1   6.6  13.1   0.0 -1  0  0  0  0  0  0  0   28.138 4  0  5    0
425 26  8  27.8 1076. -236.   6. -250. 1087. -225.   0.  47.3   6.3  47.3   0.0 -1  0  0  0  0  0  0  0    0.243 4  0 12    0
426 26  9  38.4  306.-1451.  29. -380.  387.-1309.   0. 157.8  29.2 157.8   0.0 -1  0  0  0  0  0  0  0    0.151 5  0  8    0
427  1  6 228.8  980. 1140.  18.  665.  976. 1127.   0.  43.0  17.9  43.0   0.0 -1  0  0  0  0  0  0  0    0.308 4  0 12    0
428 25  1   2.6 1233.-1478.  35.-1132. 1238.-1466.   0.  48.4  34.4  48.4   0.0 -1  0  0  0  0  0  0  0    0.889 3  0  5   15
429  3 14  25.3 1189.   60.  23. -160. 1071.  100.  35. 170.4  35.5 170.4  64.3140 26  0  0  0  0  0  0    0.889 3  0  5   15
429  3 14  25.3 1189.   60.  23. -160.  710.   89.   0. 187.9  37.8 168.3   0.0 -1  4  0  0  0  0  0  0   21.304 3  0  3    0
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437  1  6 375.6  900.   89.  16.   88.  974.   52.   0.  72.1  18.3  72.1   0.0 -1 26  0  0  0  0  0  0    8.292 4  0  4    0
438 26  8  26.5  635.  -89.  11.  189.  658.  -94.   0.  53.5  11.2  53.5   0.0 -1  0  0  0  0  0  0  0    1.537 3  0  5    0
439  3 14  60.0  953. -152.  10. -101. 1086.  -65.   0. 166.1   9.8 165.5   0.0 -1  0  0  0  0  0  0  0    1.871 4  0  5    0
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441  3 14  40.7  340.  327.  15.  677.  389.  319.   0.  70.6  15.0  70.6   0.0 -1  0  0  0  0  0  0  0    1.557 4  0  5    0
442 25  1   1.7 1047.   88.  14.  -29. 1070.   92.   0.  51.1  14.1  51.1   0.0 -1 26  0  0  0  0  0  0    0.014 5  0 13    0
443  3 16   6.2 2708.  817.  34. -902. 2706.  823.   0.  47.1  33.8  47.1   0.0 -1  0  0  0  0  0  0  0    3.405 3  0  2   16
444  3 14  52.4 1085.  538.  23.  214. 1077.  496.  26.  72.1  26.1  72.1  65.3 97 18  0  0  0  0  0  0    3.405 3  0  2   17
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```

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485  2  4 41.8  565.  667.   5.  706.  565.  667.  5.   5.7  5.0   5.7  0.0 85 16  0  0  0  0  0   0.957 4 0  2   19
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494  3 14 63.6 1193.  -42.  19. -225.  791.  400. 154. 243.7 154.4 243.7  0.2  4  2  *  *  *  *  *   0.999 3 0  5   21
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494  3 14 63.6  968.  294. 126. -225.  178.  155. 150. 234.9 232.4 146.9  0.0  0 -1  0  0  0  0  0   0.0   3 0  5   21
494  3 14 63.6  968.  294. 126. -225.  816.  357. 130. 219.3 135.6 143.6 131.2  4  2  0  0  0  0  0   0.100 3 0  5   21
494  3 14 63.6  968.  294. 126. -225.  706.  544.  83. 234.9 142.3 169.4 11.1 92 17  0  0  0  0  0   0.100 3 0  5   21
494  3 14 63.6  968.  294. 126. -225. 1071. -173.  53. 215.8 556.6 172.5  0.0  0 -1  0  0  0  0  0   0.0   3 0  5   21
494  3 14 63.6  968.  294. 126. -225.  981.  324. 150. 140.5 150.1 115.9 59.1  7  3  0  0  0  0  0   0.100 3 0  5   21
494  3 14  63.6  968.  294.  126. -225.HISTORY DEFAULT,IFLAG=  3
494  3 14 69.3 2056.  407.  44. -635. 1928.  762.  0. 185.0 44.9 183.3  0.0 -1  0  0  0  0  0  0   0.308 3 0 13    0
495  3 14 68.8  210.  134.  19.  662.  290.   74.  0. 111.1 19.4 111.0  0.0 -1  0  0  0  0  0  0  11.077 4 0  3    0
496 26  8 45.6  377. -247.   6.  298.  387. -253.  0.  38.9  6.3  38.9  0.0 -1  0  0  0  0  0  0  11.828 4 0  4    0
497 25  1  1.2  724.   -2.   7.  171.  741.   -7.  0.  45.1  7.2  45.1  0.0 -1  0  0  0  0  0  0   0.486 4 0  5    0
498 26  8 46.3 1004.-1273.  26. -825. 1007.-1248.  0.  51.6 25.6  51.6  0.0 -1  0  0  0  0  0  0  64.902 5 0 12    0
499 26  8 21.1 1101.   30.   8. -108. 1115.   39.  0.  46.7  7.8  46.7  0.0 -1 26  0  0  0  0  0   4.969 4 0  5    0
500 26  9 33.4  491.  -62.  13.  320.  535.  -90.  0.  93.1 13.1  93.1  0.0 -1  0  0  0  0  0  0   1.859 4 0  4    0
```

                              SUMMARY FOR TORNADO 22

| | | | SINGLE MISSILE | | | MULTIPLE MISSILE | |
TARGET	EVENT	P(A|I)	VAR(P(A|I))	CONFIDENCE BOUNDS		P(A)	P(A|I)**N	P(A)**N
1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0