1. Base Three

Program Name: Base3.java Input File: base3.dat

Judges Input File MAO

MMAAOO

MAOMAO

OMOAO

MAMA

MAMAOO

AOMA

AAAMMO

AMAMAM

OAMOAM

MAOOAM

Judges Output to Screen

288

168

24

20

180 -25

-339

-182

-56

2. Duplicate Vowels

Program Name: Duplicates.java Input File: duplicates.dat

Judges Input File

20

SACRILEGIOUS

AUTOMOBILE

AUTOECIOUSLY

ADENOCARCINOMATOUS

ANTIRELIGIOUS

AAABUUUUBEEEOOOIIIIJOOOZZZUUU

AAABBEEEIIIIJOOOZZZUUU

AUTOECIOUS

AUTOECIOUSLY

FACETIOUSNESSES

SACRILEGIOUS

SACRILEGIOUSNESS

ULTRASERIOUS

MAJESTIOUS

PARECIOUS

CUUUAAAHIIIKEEEEPOAICUUAI

PLACENTIOUS

ABOUT

BIGGERTHANLIFE

ELEPHANTNOSE

Judges Output to Screen

YES

NO

YES

YES

YES YES

YES

YES

YES

YES

YES

YES

YES

YES

YES NO

YES

NO

NO NO

3. Exponents

Program Name: Exponents.java Input File: exponents.dat

Judges Input File 2 16

2 16 3 243 11 3138428376721 17 24137569 13 302875106592253 7 13841287201 2 2 19 799006685782884121

Judges Output to Screen

4. Four of a Kind

Program Name: FourKind.java Input File: fourkind.dat

Judges Input File

Judges Output to Screen

MARY
ALEX
TIE AMY REX
NO WINNER
JAN
TIE HARRY JERRY LARRY
NO WINNER
JOE
TIE FRED NED
TIE ALI LISA

5. House Numbers

Program Name: House.java Input File: house.dat

Judges Input File

Judges Output to Screen

1101111 \$1.85 100000111000 \$5.20 100000 \$0.66 10111101011 \$3.55 11011110 \$1.94 1000111000001 \$1.41 1111101111 \$3.40 10000000 \$0.80 1100 \$0.06 1000 \$1.01

6. Let's Make a Deal

Judges Input File

Judges Output to Screen

- 3 WON
- 2 LOST
- 2 WON
- 1 LOST
- 3 WON
- 3 WON
- 3 WON
- 2 LOST
- 3 LOST
- 3 WON
- 2 LOST
- 1 LOST
- 1 WON

7. Lockers

Program Name: Lockers.java Input File: lockers.dat

Judges Input File

```
8
500 1000 859 575 600 650 732 840 950 850 900 875 859
100 400 150 300 350 200 175 125 400 150
1000 2000 1575 1428 1300 1400 1450 1700 1600 1500 1575
500 700 650 650
1 100 50 50
200 900 675 235 555 755 455 355 345 725 700 650 675
200 300 250 251 249 240 260 250
900 1000 925 950 900 915 935 930 920 925
```

Judges Output to Screen

- 600 WARMER
- 650 WARMER
- 732 WARMER
- 840 WARMER
- 950 COLDER
- 850 WARMER
- 900 COLDER
- 875 WARMER
- 859 FOUND
- 350 COLDER
- 200 WARMER
- 175 WARMER
- 125 SAME
- 400 COLDER
- 150 FOUND
- 1300 COLDER
- 1400 WARMER
- 1450 WARMER
- 1700 SAME
- 1600 WARMER
- 1500 COLDER
- 1575 FOUND
- 650 FOUND ON FIRST TRY
- 50 FOUND ON FIRST TRY
- 555 WARMER
- 755 WARMER
- 455 COLDER
- 355 COLDER
- 345 COLDER
- 725 WARMER
- 700 WARMER 650 SAME
- 675 FOUND
- 249 SAME
- 240 COLDER
- 260 SAME

- 250 FOUND
- 900 SAME
- 915 WARMER
- 935 SAME
- 930 WARMER
- 920 SAME
- 925 FOUND

8. Lucky Number

Program Name: Lucky.java Input File: none

Judges Input File

There is no input for this problem.

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*																	*
****	* * *	* * *	* *	*	*	*	*	*	*	*	*	*	*			*	*
****	* * *	**	* *	*	*	*	*	*	*	*	*	*			*	*	*
****	* * *	**	* *	*	*	*	*	*	*	*	*			*	*	*	*
****	* * *	**	* *	*	*	*	*	*	*	*			*	*	*	*	*
****	* * *	**	* *	*	*	*	*	*	*			*	*	*	*	*	*
****	* * *	**	* *	*	*	*	*	*			*	*	*	*	*	*	*
****	* * *	**	* *	*	*	*	*			*	*	*	*	*	*	*	*
****	* * *	**	* *	*	*	*			*	*	*	*	*	*	*	*	*
****	* * *	* * *	* *	*	*			*	*	*	*	*	*	*	*	*	*
****	* * *	* * *	* *	*			*	*	*	*	*	*	*	*	*	*	*
****	* * *	* * *	* *	7		*	*	*	*	*	*	*	*	*	*	*	*
****	* * *	* * *	*		*	*	*	*	*	*	*	*	*	*	*	*	*
****	* * *	* * *		*	*	*	*	*	*	*	*	*	*	*	*	*	*
****	* * *	*	4	*	*	*	*	*	*	*	*	*	*	*	*	*	*
****	* * *		* *	*	*	*	*	*	*	*	*	*	*	*	*	*	*
****	* *	*	* *	*	*	*	*	*	*	*	*	*	*	*	*	*	*
****	*	* *	* *	*	*	*	*	*	*	*	*	*	*	*	*	*	*
****	*	* * *	* *	*	*	*	*	*	*	*	*	*	*	*	*	*	*
***	* *	* * *	* *	*	*	*	*	*	*	*	*	*	*	*	*	*	*
**	* * *	* * *	* *	*	*	*	*	*	*	*	*	*	*	*	*	*	*
* *	* * *	* * *	* *	*	*	*	*	*	*	*	*	*	*	*	*	*	*
****	* * *	* * *	* *	*	*	*	*	*	*	*	*	*	*	*	*	*	*

9. Money: Brother Can You Spare a Hammer?

Program Name: Money.java Input File: money.dat

Judges Input File

Judges Output to Screen

10. Realtor World

Program Name: Realtor.java Input File: realtor.dat

Judges Input File

```
4 4
0 -2 -7 0
9 2 -6 2
-4 1 -4 1
-1 8 0 -2
4 6
3 3 -3 -3 4 -4
2 8 3 8 9 10
-4 -4 3 7 -5 3
6 2 -2 4 -6 8
5 5
-5 3 -2 4 -2
-2 3 2 -2 3
3 -2 1 3 -2
-1 9 -1 7 2
7 -3 -3 2 -4
1 1 1 1
1 1 1 1
1 1 1 1
1 1 1 1
5 6
-1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1
-1 -1 1 -1 -1 -1
-1 -1 -1 -1 -1 -1
-1 -1 -1 -1 -1 -1
```

Judges Output to Screen

11. Target Practice

Program Name: Target.java Input File: target.dat

Judges Input File

```
6 4

PYLE (3,4) (5,4) (0,0) (4,1) (10,11)

ANDY (1,5) (-1,-2) (3,3) (-4,4) (0,1)

DON (0,2) (-2,0) (1,0) (2,3) (-2,1)

MATT (10,0) (-5,-5) (5,2) (0,0) (0,0)

WAYNE (0,0) (1,1) (0,1) (1,0) (-1,0)

ROCK (25,30) (95,-95) (-10,99) (-99,-99) (-75,0)
(0,0)
(15,-10)
(-99,-99)
(37,-42)
```

Judges Output To Screen

```
TARGET 1 WAYNE 2
TARGET 2 MATT 45
TARGET 3 ROCK 281
TARGET 4 MATT 160
```

12. Treasure Hunt

Program Name: Treasure.java Input File: treasure.dat

Judges Input File

```
5
3 6
. . . . . . . .
.000900.
*100000.
.161101.
. . . . . . . .
8
5 7
*
.9000112.
.0102045.
.0701020.
.8412302.
.3332221.
12
10 12
. . . . . . . . . . . . . . . .
.99990000001.
.99990000001.
.99990000001.
.000000000000.
.000000000000.
.000000000000.
.000000000000.
.000000000000.
.000000022222.
.000111111111.
* . . . . . . . . . . . . . . . . .
4 6
.900000.
.000000.
.000000.
.000010.
. . . . . . * .
10
5 5
...*...
.00000.
.00000.
.00000.
.00000.
.00000.
11
6 7
. . . . . . . . .
```

.2119585.

.1595029. .9925116* .9216597. .1704343. 9 10 12 .99990000001. .99990000001. .99990000001. .000000000000. .000000000000. .000000000000. .000000000000. .000000000000. .000000022222. .00022222221. *..... 15 5 6990000. .900000. .000000. .002022.

Judges Output to Screen

.022223.