Catlin Gabel Fall Programming Contest

Judges' Data

Problems:
0. Practice Problem

0. Practice Problem

Input File: practice.txt

Input:

```
3
proverbs..
a question
pRaCtIcE!.!
```

Output:

```
Practice makes proverbs...
Practice makes a question.
Practice makes pRaCtIcE!.!.
```

1/-. Triforce

Input:

N/A

Output:

```
    /\
   /__\
  /\  /\
 /__\/__\
```

-/1. Fancy Frame

Input:

N/A

Output:

```
\^/     \^/
<#>-o-<#>
/v\ | /v\
 | \|/ |
  o--0--o
 | /|\ |
\^/ | \^/
<#>-o-<#>
/v\     /v\
```

2/-. Angles

Input:

```
6
60 60
110 20
10 70
12 78
178 1
1 1
```

Output:

```
60
50
100
90
1
178
```

3/2. Interception

Input:

```
3
33 759
18 684
1 100
```

Output:

```
35
19
2
```

4/3. Apples

Input:

```
4
1
meIRL 0
2
Zero 0
Ten 10
3
Bread 87
Panem 21
Pomme 35
9
Honeycrisp 98
Fuji 4
Gala 4
Red 4
Green 4
Golden 4
Candy 4
Caramel 4
Apple 4
```

Output:

```
0
1
16
18
```

5/-. BPM Matching

Input:

```
6
484 60
357 343
400 120
20 640
30 30
900 899
```

Output:

```
15
9
2
3
2
60
```

6/4. Homework

Input:

```
4
2
99 99
10
1 999 1000 73 666 0 24 35 1 0
5
40 40 41 40 40
7
17 47 57 77 67 37 27
```

Output:

```
0.0
1954.5
0.4
56.0
```

7/5. Desktop

Input:

```
4
1  4  3
$||$
2  2  3
\/
/\
2  8  1
\/  /  /\
 \/  /  /\
2  5  2
PASTE
ONEON
```

Output:

```
$||$$||$$||$
$||$$||$$||$
$||$$||$$||$

\/\/\/
/\/\/\
\/\/\/
/\/\/\
\/\/\/
/\/\/\

\/  /  /\
 \/  /  /\

PASTEPASTE
ONEONONEON
PASTEPASTE
ONEONONEON
```

8/6. Hedge Maze

Input:

```
5
1
X
2
 X
 X
4
XXXX
 X X
   X
X XX
8
X X X X
   XX X X
XXX X X
 X XXX X
X XXX X
 X X XXX
X X XX
 X X X X
10
X XXXXXXXX
X X   X X
X   X XX X
XXXX     X
X     XXX X
X XXXX XXX
X X       X
X XX  XX X
X     X X
XXXXXXXX X
```

Output:

```
1
0
1
3
1
```

9/-. Find the Treasure

Input:

```
<over 100 lines of input>
```

Output:

```
Start
monolith
Z
obelisk40
```

10/7. Logic Puzzle

Input:

```
7
Ent Vife
Enin Neves
Xis Enin
Rouf Reeth
Thige Vife
Eno Thige
Eno Enin
```

Output:

```
Ent
=
Xis
?
Thige
?
Eno
```

11/-. Performance

Input:

```
6
5 5
1 5000 5001 5002 10001
9 2
600 1200 1800 2400 2800 3000 3600 4000 4200
15 6
0 0 0 0 0 6000 6001 6002 6003 6004 11000 11011 11022 11033 11055
12 4
50 75 100 125 150 150 150 150 200 200 300 300
13 9
10 10 20 30 50 80 130 210 340 550 890 1440 2330
200 11
0 202 404 606 808 1010 1212 1414 1616 1818 2208 2409 2610 2811 3012 3213 3414 3615
3816 4017 4406 4606 4806 5006 5206 5406 5606 5806 6006 6206 6594 6793 6992 7191 7390
7589 7788 7987 8186 8385 8772 8970 9168 9366 9564 9762 9960 10158 10356 10554 10940
11137 11334 11531 11728 11925 12122 12319 12516 12713 13098 13294 13490 13686 13882
14078 14274 14470 14666 14862 15246 15441 15636 15831 16026 16221 16416 16611 16806
17001 17384 17578 17772 17966 18160 18354 18548 18742 18936 19130 19512 19705 19898
20091 20284 20477 20670 20863 21056 21249 21630 21822 22014 22206 22398 22590 22782
22974 23166 23358 23738 23929 24120 24311 24502 24693 24884 25075 25266 25457 25836
26026 26216 26406 26596 26786 26976 27166 27356 27546 27924 28113 28302 28491 28680
28869 29058 29247 29436 29625 30002 30190 30378 30566 30754 30942 31130 31318 31506
31694 32070 32257 32444 32631 32818 33005 33192 33379 33566 33753 34128 34314 34500
34686 34872 35058 35244 35430 35616 35802 36176 36361 36546 36731 36916 37101 37286
37471 37656 37841 38214 38398 38582 38766 38950 39134 39318 39502 39686 39870 40242
40425 40608 40791 40974 41157 41340 41523 41706 41889
```

Output:

```
10000
200
5000
0
330
2019
```

12/-. Solitaire

Input:

```
<nearly 200 lines of input>
```

Output:

```
True
True
False
False
True
```

13/8. Sandstorm

Input:

```
7
2  9999
5  4
25  15
1233  8117
2468  3579
9999  9998
9999  9997
```

Output:

```
9999
28
Good luck!
10000144
13009665
13084782520
Good luck!
```

14/9. Ristet

Input:

```
<over 1000 lines of input>
```

Output:

```
1
Impossible
5
3
736
```

15/10. Super Bowling

Input:

```
<over 50 lines of input>
```

Output:

```
49
47
19
31
21
41
27
15
15
```

-/11. Parkour Run

Input:

```
<over 50 lines of input>
```

Output:

```
6
Get a jetpack.
22
10
44
Get a jetpack.
```

-/12. Websites

Input:

```
<over 1000 lines of input>
```

Output:

```
2
0
4
57
199
149
```

-/13. Virus

Input:

```
<over 20000 lines of input>
```

Output:

```
1998
12
19
15110
18804
19998
```

-/14. Mushrooms

Input:

<over 4000 characters of input>

Output:

```
9
20
999999
30
258
259584
272422
```

-/15. Basketbob

Input:

```
<over 300 lines of input>
```

Output:

```
1
2
4
9999
6
5095
9000
```