
1. Candies for Kids

Program Name: Candy.java

Input File: candy.dat

Judges Input File

```
8
1 1 1 1 6
2 3 4 5 6 7
5 3 2 6 4
9 7 5 9 4 10 3 6
7 7 7 7 7 7 7 7 7
20 30 40 50 60 70 10
34 54 34 54 33 44 22 44
9 3 8 4 7 5 6
```

Judges Output to Screen

```
1 1 1 1 -4 0
2 1 0 -1 -2 -3 3
-1 1 2 -2 0 0
-3 -1 1 -3 2 -4 3 0 5
0 0 0 0 0 0 0 0 0 0
20 10 0 -10 -20 -30 30 0
5 -15 5 -15 6 -5 17 -5 7
-3 3 -2 2 -1 1 0 0
```

2. Code Two

Program Name: Code2.java

Input File: code2.dat

Judges Input File

8

```
eaetoo**hrmedc**todmir.*sfooaiy*ieoceer*wmgohht*oiltttn*Ntlnofu*
acicisynmsadlaeelalNrloeadadohSnydhr
Se0*Lt2*Ian9Uti0
sormn*ivpmaeaaealgvftргаayignuJmroig
FLRX**EKQW**DJPV**CIOU**BHNTZ*AGMSY*
369258147
eWro*dleWrnudleofnudWrofn
tiate*sldhrotילוIetpsictvdiistaerhesheicThetvrn
```

Judges Output to Screen

```
Nowisthetimeforallgoodmentocometotheaidoftheircountry.*****
SallyandNancyaremiddleschoolairheads
UILStatein2009**
Javaismyfavoriteprogramminglanguage*
ABCDEFGHIJKLMNPOQRSTUVWXYZ*****
123456789
WonderfulWonderfulWonder*
ThisisthesilliestcodethatIhaveevertriedtoencrypt*
```

3. Lightning

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Judges Output to Screen

8
6
6
0

5. The Thief's Dilemma

Program Name: Thief.java

Input File: thief.dat

Judges Input File

```
13
15
5
[12,4] [2,2] [2,1] [1,1] [4,10]
15
3
[9,12] [7,7] [7,6]
20
6
[5,5] [6,3] [12,4] [3,2] [10,12] [7,4]
20
7
[20,5] [20,10] [20,5] [6,6] [6,7] [6,3] [20,30]
14
12
[1,3] [9,6] [9,1] [9,7] [4,3] [9,3] [3,5] [8,1] [7,6] [9,2] [4,7] [7,6]
15
2
[20,20] [30,30]
15
1
[16,6]
15
1
[6,16]
15
4
[3,4] [3,5] [5,5] [4,1]
10
4
[20,30] [20,40] [30,40] [15,40]
10
5
[9,11] [4,5] [4,5] [4,4] [2,1]
10
5
[9,11] [4,5] [4,5] [4,4] [2,3]
25
19
[7,8] [6,4] [9,1] [7,3] [7,3] [7,9] [7,10] [6,10] [1,5] [2,5] [2,4] [7,10]
[10,1] [2,9] [1,1] [3,4] [2,4] [1,7] [6,8]
```

(All the pairs in the last data set are actually on the same line.)

Judges Output to Screen

DATA SET 1 14
DATA SET 2 13
DATA SET 3 19
DATA SET 4 30
DATA SET 5 18
DATA SET 6 0
DATA SET 7 0
DATA SET 8 16
DATA SET 9 15
DATA SET 10 0
DATA SET 11 11
DATA SET 12 13
DATA SET 13 56

6. Transformers: Optimus Prime

Program Name: Transform.java

Input File: transform.dat

Judges Input File

```
13
Mik
Hi!
How are u?
"car" is yellow
Bye :)
rest:
wanted
to send
more
*@&# (@#
but
can't
and 712
```

Judges Output to Screen

```
1001101_1101001_1101011
2200_10220_1020_1012
242_421_434_112_342_424_401_112_432_223
46_201_166_222_46_44_210_223_44_232_203_213_213_216_230
1000010_1111001_1100101_100000_111010_101001
11020_10202_11021_11022_2011
434_342_420_431_401_400
224_216_44_223_203_215_202
1101101_1101111_1110010_1100101
1120_2101_1102_1022_1111_2101_1022
343_432_431
201_166_215_54_224
1100001_1101110_1100100_100000_110111_110001_110010
```