



UIL Computer Science Competition

Region 2017

JUDGES PACKET - CONFIDENTIAL

I. Instructions

1. The attached printouts of the judge test data are provided for the reference of the contest director and programming judges. Additional copies may be made if needed for this purpose.
2. This packet must remain CONFIDENTIAL. Additional copies may be made and returned to schools when other confidential contest material is returned.

II. Table of Contents

Number	Name
Problem 1	Alessandra
Problem 2	Brandon
Problem 3	Camilo
Problem 4	Denise
Problem 5	Edward
Problem 6	Fabiana
Problem 7	Honza
Problem 8	Lisa
Problem 9	Manuela
Problem 10	Rishi
Problem 11	Suhani
Problem 12	Tanvi

Problem #1
60 Points

1. Alessandra

Program Name: Alessandra.java

Test Input File: None

Test Input File: None

Test Output To Screen

2.7182817
2.718281828459045
3.1415927
3.141592653589793

Problem #2

60 Points

2. Brandon

Program Name: Brandon.java

Input File: brandon.dat

Test Input File: brandon.dat

56 11 -34 79 100 73 -9 123

Test Output To Screen

3136
121.0
1156
6241.0
10000
5329.0
81.0
15129.0

Problem #3

60 Points

3. Camilo

Program Name: Camilo.java

Test Input File: camilo.dat

Test Input File: camilo.dat

3
4
5

6
7
10

13
14

Test Output To Screen

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[illegible][illegible]

Note to judge: The longest bar of stars at the point of the arrow should be one more than the input value. Also, pay particular attention to the bottom half of the triangle, which should end in a single star at the bottom.

Problem #4

60 Points

4. Denise

Program Name: Denise.java

Input File: denise.dat

Test Input File: denise.dat

10
####.##.##
####○...##
####...#○##
####○##○##
#○...##○##
#...##○##
#.....○.##
####.#####
####.○...##
#####.##
—

###...○##
###...####
####.#####
#○...#. ...#
####.#####
####.###...#
####.#####
####. ...##
#####.##
—

####.○.○##
####.#####

#○...#. ...#
####.#####

#####○##
#####.
—
#####.
#.....#
#.#####
#.○○○○...#
#####.#
#.....○#
#.#####
#○#####
#○.....○##

—
#####.
#.....#
#.#####
#.....#
#####.#
#.....#
#.#####
#.#####
#.#####
#.....#
#####○##
—
#####.
#.....#

#.#.#.#.#.#.
#.....#
#.#.#.#.#.#.
#.....#
#.#.#.#.#.#.
#.....#
#○.#.#.#.#.○#
#.#.#.#.#.○#

—

#.#.#.#.#.#.
#.....#
#.....#
#.....#
#.....#
#.....○#
#○.....#
#.....#
#.....#
#.....#
#...○.○○○#
#.#.#.#.#.#.

—

#.#.#.#.#.#.
#○..#.○○.#
#...#.#.#.
#...#.#.#.
#...#.#.#.
#...#.#.#.
#...#.#.#.
#...#.#.#.
#...#.#.#.
#...#.#.#.

. . . # . # . #
 #####
 —
 # . # . # . # . #
 . #####
 ## #
 . #####
 #####
 . ###
 #####
 . . . #####
 ### . . . #
 # . # . # . # . #
 —
 # . # . # . # . #
 . #####
 ## #
 . #####
 #####
 . ### #
 #####
 . . . # # # #
 ### . . . #
 # . # # # # #
 —

Test Output To Screen

$$\begin{matrix} 3 \\ 2 \\ 2 \\ 1 \end{matrix}$$

1
3
5
1
1
2

Problem #5

60 Points

5. Edward

Program Name: Edward.java

Test Input File: edward.dat

Test Input File: edward.dat

```
3
4 1 8 2 8 6 3 6 6
7 1 7 2 7 3 8 5 3 7 3 6 5 6 7
5
7 3
6 5
5 3
3 8
1 7
4 1 1 2 2 2 6 1 7
9 2 1 1 2 3 2 1 5 2 5 2 3 1 6 2 7 1 8
6
3 2
2 1
1 2
```

```
1 5
1 8
2 7
8 1 8 3 6 7 2 6 3 5 4 4 5 6 7 4 8
13 7 1 6 1 6 4 5 3 4 4 5 5 6 6 2 6 5 7 4 7 1 7 6 8 2 8
9
7 1
5 3
6 1
5 5
6 6
6 8
2 8
1 7
6 4
```

Test Output To Screen

```
(7, 3) ==> (6, 3)
(6, 5) ==> (6, 6)
(5, 3) ==> (6, 3)
(3, 8) ==> NONE
(1, 7) ==> NONE

(3, 2) ==> (2, 2)
(2, 1) ==> (2, 2)
(1, 2) ==> (2, 2)
(1, 5) ==> NONE
(1, 8) ==> (1, 7)
(2, 7) ==> (2, 6)

(7, 1) ==> NONE
(5, 3) ==> (5, 4)
(6, 1) ==> NONE
(5, 5) ==> (5, 4)
(6, 6) ==> (6, 7)
(6, 8) ==> (6, 7)
(2, 8) ==> NONE
(1, 7) ==> NONE
(6, 4) ==> (5, 4)
```

Problem #6
60 Points

6. Fabiana

Program Name: Fabiana.java

Input File: fabiana.dat

Test Input File: fabiana.dat

```
REGIONUIL 0
REGIONUIL 1
REGIONUIL 3
REGIONUIL 5
REGIONUIL 7
UIL 2
CONTEST 4
REGION 5
WINNER 3
INDIVIDUALTESTCHAMPION 14
PROGRAMMINGPACKETSWEPT 20
```

Test Output To Screen

```
0
1
3
5
4
2
3
5
3
4
3
```

7. Honza

Program Name: Honza.java

Test Input File: honza.dat

Test Input File: honza.dat

```
10
12/31/1999 23:59 7
12/31/1993 00:32 9193343326845736209
2/1/523 02:59 1000000000
2/28/1000 12:00 720
2/28/21474836 23:59 9223372036854775807
10/5/2333 19:43 1000
5/23/1000 22:33 525600
8/31/1 01:01 1095
11/11/2011 00:00 111111111111
3/14/314 13:03 0
```

Test Output To Screen

```
Sat 1/1/2000 00:01
Sun 6/6/2951 11:46
Fri 5/31/2424 14:34
Wed 2/28/1000 23:55
Fri 4/16/21483002 05:09
Fri 10/6/2333 12:18
Fri 5/23/1001 22:28
Wed 8/31/1 19:11
Tue 2/11/213270 19:46
Sun 3/14/314 12:58
```


Problem #8
60 Points

8. Lisa

Program Name: Lisa.java

Input File: lisa.dat

Test Input File: lisa.dat

Alessandra
Brandon
Camilo
Denise
Edward
Fabiana
Honza
Lisa
Manuela
Rishi
Suhani
Tanvi
David
Shyamal
John
Crystal
Kirby
Joel

Test Output To Screen

Crystal	738	546	770	97.81
Tanvi	514	386	546	96.40
Kirby	513	385	545	96.20
Honza	512	384	544	96.00
Rishi	511	383	543	95.80
Suhani	616	456	648	95.56
Shyamal	719	527	751	95.10
John	399	303	431	94.42
Alessandra	1022	734	1054	93.67
Brandon	708	516	740	93.52
Manuela	707	515	739	93.38
Joel	394	298	426	93.17
Lisa	393	297	425	92.92
Denise	600	440	632	92.89
Edward	599	439	631	92.72
Camilo	597	437	629	92.39
David	488	360	520	91.20
Fabiana	674	482	706	88.67

Problem #9

60 Points

9. Manuela

Program Name: Manuela.java

Input File: manuela.dat

Test Input File: manuela.dat

10	quadruplepenny	5	21
6	4	A 58000	A 1
two-dollar 200	triplepenny 3	B 48000	B 2
dollar 100	doublepenny 2	C 38000	C 4
quarter 25	penny 1	D 700	D 8
dime 10	1027	E 200	E 16
nickel 5	5	58900	F 32
penny 1	A 5	2	G 64
337	B 4	A 5	H 128
7	C 3	B 1010	I 256
aijika 13	D 2	2120	J 512
uilika 11	E 1	10	K 1024
quilika 7	15	J 10	L 2048
yuilkia 5	1	I 9	M 4096
dilkia 3	A 1	H 8	N 8192
gilikia 2	56	G 7	O 16384
tikki 1	5	F 6	P 32768
14159	A 439	E 5	Q 65536
6	B 342	D 4	R 131072
euro 100	C 120	C 3	S 262144
pentuplepenny	D 50	B 2	T 524288
5	E 1	A 1	U 1048576
	1835	3564	2047

Test Output To Screen

```
dime: 1 dollar: 1 penny: 2 quarter: 1 two-dollar: 1
aijika: 1089 gilikia: 1
doublepenny: 1 euro: 10 pentuplepenny: 5
A: 3
A: 56
A: 1 B: 3 C: 1 D: 5
A: 1 D: 1 E: 1
A: 20 B: 2
D: 1 J: 356
A: 1 B: 1 C: 1 D: 1 E: 1 F: 1 G: 1 H: 1 I: 1 J: 1 K: 1
```

Problem #10
60 Points

10. Rishi

Program Name: Rishi.java

Test Input File: rishi.dat

Test Input File: rishi.dat

```
AAAABBBBAACCCCCDDDDDDDD
12X4Y12Z
RSRSRSRRRRRRRRSSSSSSSSSSSSST
6W3B9W4B3W
AAAAAABBBB
AABBCCDDDDA
7C5D3C
1A1B1C4D6C
AAAAEAAAAAEEAAAAAAE
```

Test Output To Screen

```
4A4B2A6C7D
12X4Y12Z
1R1S1R1S1R1S8R14S1T
6W3B9W4B3W
6A4B
2A2B2C4D1A
CCCCCCCCDDDDCCCC
ABCDDDDCCCCCCC
4A1E5A2E6A1E
```

Problem #11

60 Points

11. Suhani

Program Name: Suhani.java

Input File: suhani.dat

Test Input File: suhani.dat

```
3 4 5 3 4 5
2 3 4 4 3 2
3 4 5 5 2 3
2 3 4 2 3 4.5
2 2 3 3.5 2 2
2 2 2 1 2 2.5
3 4 5 3 4 5
5 7 11 11 7 6
6 8 10 4 6 8
6 8 10 5 7 12
9 12 15 12 9 15
```

Test Output To Screen

```
3
3
2
2
2
1
3
2
2
0
3
```

Problem #12

60 Points

12. Tanvi

Program Name: Tanvi.java

Input File: tanvi.dat

Test Input File: tanvi.dat

```
10
5
[00:00, 13:15] [10:45, 11:00] [10:00, 10:31] [11:01, 13:50] [23:00, 23:10]
6
[17:00, 22:30] [01:45, 03:33] [01:00, 02:50] [01:45, 03:00] [02:45, 03:01] [11:05, 11:09]
5
[22:30, 23:30] [01:00, 02:50] [02:45, 03:00] [17:00, 22:29] [02:51, 04:42]
7
[01:00, 01:01] [01:02, 01:03] [01:01, 01:04] [01:03, 01:04] [01:05, 01:06] [01:02, 01:10] [01:02, 01:15]
1
[00:00, 17:00]
6
[00:37, 03:00] [18:38, 22:30] [17:00, 22:29] [22:30, 23:30] [01:00, 12:36] [04:45, 6:23]
5
[01:00, 23:59] [02:45, 03:00] [11:11, 11:12] [02:30, 23:30] [11:30, 13:30]
3
[01:00, 2:50] [22:45, 23:00] [23:58, 23:59]
2
[11:00, 12:50] [12:55, 15:46]
10
[00:00, 01:01] [01:00, 01:02] [01:00, 01:03] [01:00, 01:04] [01:04, 01:09] [01:04, 01:08] [01:09, 01:10] [01:11, 01:12] [01:11,
01:13] [01:14, 01:18]
```

Test Output To Screen

```
[10:00, 10:31] [10:45, 11:00] [11:01, 13:50] [23:00, 23:10]
[01:00, 02:50] [11:05, 11:09] [17:00, 22:30]
[01:00, 02:50] [02:51, 04:42] [17:00, 22:29] [22:30, 23:30]
[01:00, 01:01] [01:02, 01:03] [01:05, 01:06]
[00:00, 17:00]
[00:37, 03:00] [04:45, 06:23] [17:00, 22:29] [22:30, 23:30]
[02:45, 03:00] [11:11, 11:12] [11:30, 13:30]
[01:00, 02:50] [22:45, 23:00] [23:58, 23:59]
[11:00, 12:50] [12:55, 15:46]
[00:00, 01:01] [01:04, 01:08] [01:09, 01:10] [01:11, 01:12] [01:14, 01:18]
```