

UIL Computer Science Competition

District 2017

JUDGES PACKET - CONFIDENTIAL

I. Instructions

- 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.

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Problem #1 60 Points

1. Alexey

Program Name: Alexey.java Test Input File: alexey.dat

Test Input File: alexey.dat

RS 4 45 LS 2 13

RC 3 81

N 23

A 23 14

0 23 14

X 23 14

LC 5 119

0 99 100

LS 5 513

X 255 390

RC 5 181

LC 8 999

N 256

RS 10 1200

RS 11 1200

A 632 15

RC 10 1200

LC 10 1200

Test Output To Screen

2

52

26

8

31

25

125

103 16416

377

1389

1017

255

1

0

361648

600

Problem #2 60 Points

2. Beverly

Program Name: Beverly.java Input File: none

Test Input File: none

Test Output To Screen

Answer will vary, but should be a creative, fun, and respectful greeting to you, the judges. It should be one complete sentence, all on one line. Please be liberal with your "Yes", and accept just about anything, unless you deem it inappropriate or offensive.

Problem #3 **60 Points**

3. Dong-Sun

Program Name: DongSun.java	Test Input File: dongsun.dat
e: dongsun.dat	

Test Innut File

10 -> 5
15 -> 5
5 -> 5
3 -> 5
1
3 -> 2502
4
1 -> 2
4 -> 3
3 -> 5
5 -> 4
6
1 -> 2
4 -> 5
3 -> 7
4 -> 6
5 -> 6
9 -> 6
3
3 -> 1
1 -> 2
2 -> 2
20
4 -> 5
6 -> 10
10 -> 3

```
13 -> 13
19 -> 31
21 -> 103
1031 -> 1
34 -> 31
13 -> 10
10 -> 25
23 -> 10
2 -> 20
2 -> 10
10 -> 32
21 -> 19
18 -> 19
32 -> 3
12 -> 1
1 -> 15
15 -> 2
6
3 -> 51
5 -> 52
7 -> 53
9 -> 54
54 -> 51
53 -> 50
```

Test Output To Screen

```
Approved Applications: 10 -> 2, 8 -> 1
Approved Applications: 3 \rightarrow 4, 1 \rightarrow 2, 2 \rightarrow 3, 6 \rightarrow 7, 8 \rightarrow 9, 4 \rightarrow 5, 9 \rightarrow 10, 5 \rightarrow
6, 7 -> 8
Approved Applications: 9 \rightarrow 2, 10 \rightarrow 2, 11 \rightarrow 15
Approved Applications: 1 -> 5, 10 -> 5, 15 -> 5, 5 -> 5, 3 -> 5
Approved Applications: 3 -> 2502
Approved Applications: 1 \rightarrow 2, 4 \rightarrow 3, 5 \rightarrow 4
Approved Applications: 1 \rightarrow 2, 4 \rightarrow 5, 4 \rightarrow 6, 5 \rightarrow 6, 9 \rightarrow 6
Approved Applications: 1 \rightarrow 2, 2 \rightarrow 2
Approved Applications: 4 -> 5, 6 -> 10, 34 -> 31, 13 -> 10, 21 -> 19, 18 -> 19
Approved Applications: 3 \rightarrow 51, 5 \rightarrow 52, 7 \rightarrow 53, 9 \rightarrow 54
```

Problem #4 60 Points

4. Gan

Program Name: Gan.java Input File: gan.dat

Test Input File: gan.dat2 5 3 12 25 20 33 39

Test Output To Screen

2	12.6	12.6	50.3	33.5
5	31.4	78.5	314.2	523.6
3	18.8	28.3	113.1	113.1
12	75.4	452.4	1809.6	7238.2
25	157.1	1963.5	7854.0	65449.8
20	125.7	1256.6	5026.5	33510.3
33	207.3	3421.2	13684.8	150532.6
39	245.0	4778.4	19113.4	248474.8

Problem #5 **60 Points**

5. Hyo

Program Name: Hyo.java	Test Input File: hyo.dat
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Test Input File: hyo.dat

10	4
3	A: B C D
Annie: Bahi	B: A C D
Bahi: Carthik Annie	C: A B D
Carthik: Bahi	D: A B C
Annie Carthik	D C
6	6
Salem: Charlie Maona Blaze Cram	A: B
Charlie: Maona Joana Salem	B: C A
Maona: Charlie Salem	C: D B
Blaze: Salem Cram	D: E C
Cram: Salem Blaze	E: F D
Joana: Charlie	F: E
Salem Maona	F A
11	3
Arya: Cher Ying	A: B C
Erik: Qa	B: A
Cher: Arya Bo	C: A
Qi: Shome Thor	C A
Ying: Arya Bo	10
Qa: Thor Erik	A: B J
Bo: Ying Cher Yoshie	B: C A
Yoshie: Bo Pradip	C: D B
Pradip: Yoshie Shome	D: E C
Shome: Pradip Qi	E: F D
Thor: Qi Qa	F: G E
Erik Arya	G: H F
11	H: I G
Arya: Cher Ying	I: J H
Erik: Qa	J: I A
Cher: Arya Bo	DЈ
Qi: Shome Thor	10
Ying: Arya	A: B J
Qa: Thor Erik	B: C A
Bo: Ying Cher Yoshie	C: DB
Yoshie: Bo Pradip	D: E C
Pradip: Yoshie Shome	E: F D
Shome: Pradip Qi	F: G E
Thor: Qi Qa	G: H F
Arya Erik	H: I G
2	I: J H
A: B	J: I A
B: A	H D
ВА	

Hyo - Test Output To Screen

The degree of separation between Annie and Carthik is 2.

Annie is a friend of Bahi is a friend of Carthik.

The degree of separation between Salem and Maona is 1.

Salem is a friend of Maona.

The degree of separation between Erik and Arya is 9.

Erik is a friend of Qa is a friend of Thor is a friend of Qi is a friend of Shome is a friend of Pradip is a friend of Yoshie is a friend of Bo is a friend of Ying is a friend of Arya.

The degree of separation between Arya and Erik is 9.

Arya is a friend of Cher is a friend of Bo is a friend of Yoshie is a friend of Pradip is a friend of Shome is a friend of Qi is a friend of Thor is a friend of Qa is a friend of Erik.

The degree of separation between B and A is 1.

B is a friend of A.

The degree of separation between D and C is 1.

D is a friend of C.

The degree of separation between F and A is 5.

 ${\tt F}$ is a friend of E is a friend of D is a friend of C is a friend of B is a friend of A.

The degree of separation between C and A is 1.

C is a friend of A.

The degree of separation between D and J is 4.

D is a friend of C is a friend of B is a friend of A is a friend of J.

The degree of separation between H and D is 4.

H is a friend of G is a friend of F is a friend of E is a friend of D.

Problem #6 **60 Points**

6. Judy

Program Name: judy.java Input File: judy.dat

Test Input File: judy.dat

MNA CJD JKL D-M SAL ATR HB- BA- ADE XW- WJB BCA D-G G-H H-C C-A A-X X-Z X-Z A-X C-A H-C G-H D-G BCD DAE BCD DEA BCD DEF E-X FGH GA- CJK E-X CJK FGH G-A BCD DEF ABC

Test Output To Screen

30 30

5 6

27

28

7. Kate

Program Name: Kate.java Test Input File: kate.dat

```
Test Input File: kate.dat
```

```
1.0x^5 + 2.2x^3 + 3.23x^4 + 4 - 3.2x
-1.4 1.6 0.1
9.323x^3 - 9x + 3
1 2 0.5
2x^2 - 1
-1 1 0.001
1.0
0 1 1
3x - 3x
-5 5 0.1
3x^10 - 4x^10
-3.32 -3.15 0.01
1.1x^1 + 1.2x^2 + 1.3x^3 + 1.4x^4 + 1.5x^5 + 1.6x^6 + 1.7x^7 + 1.8x^8 - 12
1.0 2.0 0.1
10.3x
-38.8 -26.2 0.2
0 100 1
0 100 0.01
```

Test Output To Screen

22.91 12.14 -0.67 1.00 0.00 -22857.24 166.85 -4230.83 400.00

400.00

Problem #8 60 Points

8. Michael

Test Input File: michael.dat

Test Output To Screen

Problem #9 60 Points

9. Neelam

	Program Name: Neelam.java	Input File: neelam.dat
Test Input File: neela 56290 4371 802 9999 3 2000	m.dat	
87654		
Test Output To Screen 56290 0 0 00 0 =====	802 00 0 1 === 0 0	3 0 = 0
000 0 0 0 0 0 0 0 0	000 00 00 000	o o o
4371 oo o o ==== oooo ooo oo o o oo	9999 0000 ==== 0000 0000 0000 0000	2000 0000 ==== 0 0000 000 0000
1000		87654 0 0000 ===== 000 0 00 00 0 000 0000 0000

Problem #10 60 Points

10. Pratik

Program	m Name: Pratik.java	Test Input File: pratik.dat
Test Input File: pratik.dat		
10 4:53 pm Aunt Tapasi 8:59 am Second Cousin Bongi 6:07 pm Mom 12:00 am Cousin Gulasyl 12:00 am	Gr 12 Mo 11 Mo 10 Un 8:	:59 pm
Grandpa Aadi		
##### # # # #### #####################	# # # # # # # # # # # # # # # # # # #	### #### #### ##### ### # # # # # # # ### # # #
# # ##### ##### #		# ##### # ###### # # # - # # # # # # # #
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Problem #11 60 Points

11. Ralph

Program Name: Ralph.java Input File: ralph.dat

Test Input File: ralph.dat

Test Output To Screen

EXCEEDS MAX VALUE

EXCEEDS MAX VALUE

EXCEEDS MAX VALUE

Problem #12 60 Points

12. Suresh

Program Name: Suresh.java Input File: suresh.dat

Test Input File: suresh.dat (each paragraph is all on one line in the data file)
To be or not to be, that's the question.

A wise man is not one who knows all the answers. But one who knows how to find the answers. A foolish man is one who knows neither.

Did he ever return? No, he never returned and his fate is still unknown. He may ride forever neath the streets of Boston, he's the man who never returned.

Oh, somewhere in this favored land the sun is shining bright, the band is playing somewhere, and somewhere hearts are light. And somewhere men are laughing, and little children shout; but there is no joy in Mudville. Mighty Casev has struck out.

Whose woods these are? I think I know. His house in the village though. He will not see me stopping here, to watch his woods fill up with snow.

My little horse must think it queer, to stop without a farmhouse near. Between the woods and frozen lake: the darkest evening of the year.

He gives his harness bells a shake, to ask if there is some mistake. The only other sound's the sweep of easy wind and downy flake.

These woods are lovely, dark, and deep; but I have promises to keep, and miles to before I sleep, and miles to before I sleep.

Test Output To Screen

- 1 9 question
- 3 11 answers 9 answers 8 neither
- 3 4 return 10 returned 15 returned
- 3 21 somewhere 16 somewhere 5 struck
- 4 4 these 4 think 6 village 15 stopping
- 2 13 farmhouse 12 evening
- 2 14 mistake 12 sound's
- 1 25 promises