



# UIL Computer Science Competition

## Invitational A 2025

### **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.

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**Problem #1**  
**60 Points**

**1. Alberto**

**Program Name:** Alberto.java

**Input File:** None

**Test Input File:**

None

**Test Output To Screen:**

```
|_/_ \ /_/_ \ |_/_ \ |_/_ | | | | | | |
|_/_ ) || | | | ) || |_/_ |  
|_/_ / / | | | | / / |_/_ |  
|_/_ / / | | | | / / |_/_ |  
|_/_ | \_/_ / |_/_ | |_/_ /
```

**Problem #2**  
**60 Points**

## 2. Anisha

**Program Name:** Anisha.java

**Input File:** anisha.dat

**Test Input File:**

```
15
19 36
10 36
25 25
30 35
3 16
15 16
100 100
0 100
0 16
15 100
5 6
7 8
19 20
16 20
15 20
```

**Test Output To Screen:**

```
Way to go, H2O.
On my way to Dehydration Station.
Way to go, H2O.
Way to go, H2O.
On my way to Dehydration Station.
Way to go, H2O.
Way to go, H2O.
On my way to Dehydration Station.
On my way to Dehydration Station.
Way to go, H2O.
On my way to Dehydration Station.
On my way to Dehydration Station.
Way to go, H2O.
Way to go, H2O.
Way to go, H2O.
```

**Problem #3**  
**60 Points**

### 3. Danielle

**Program Name: Danielle.java**

**Input File: danielle.dat**

**Test Input File:**

500  
8,9,6,6  
4,2,8,9  
4,4,7,5  
2,8,8,5  
7,3,6,5  
9,2,6,8  
9,6,9,6  
5,2,8,6  
7,9,4,4  
1,8,3,7  
6,2,5,8  
5,7,8,7  
2,3,3,9  
6,2,6,6  
2,7,7,4  
9,5,3,4  
6,9,6,8  
8,9,8,8  
9,5,8,5  
7,2,5,7  
2,8,4,8  
6,3,6,7  
3,4,8,9  
9,6,3,5  
2,8,8,4  
8,6,4,6  
7,3,7,7  
7,8,9,4  
5,3,7,5  
4,2,6,7  
4,4,8,8  
8,7,4,5  
9,3,6,5  
7,8,8,9  
6,9,5,8  
4,7,5,4  
4,3,9,7  
5,2,5,5  
9,7,4,4  
9,6,5,6  
9,7,9,5

*Continues next column...*

*Continued from previous column...*

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

*Continues next column...*

*Continued from previous column...*

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

*Continues...*

~ For complete view of data, see.dat file ~

~ Daniel output on next page... ~

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~ Danielle continued... ~

Test Output To Screen:	Continued from previous column...	Continued from previous column...
1295	2861	164
2884	1869	2253
814	1348	1367
920	1317	883
736	2925	2957
2241	1165	410
1485	2841	2689
1373	902	2870
142	59	853
1567	1486	1030
2166	794	1361
1922	124	2727
2531	185	585
1230	2094	367
335	1958	2602
36	1515	2823
2301	1269	441
2447	2212	2289
900	676	2830
1663	283	41
2144	30	2941
1743	2044	2713
2901	534	2612
549	1078	559
416	818	4
1124	1963	273
1816	1257	64
493	486	2463
806	750	1579
1732	2133	208
2398	2978	2449
629	2661	1858
738	2845	1261
2941	704	2835
2229	2456	254
193	2037	839
1957	539	82
653	782	1000
126	2841	2109
1197	856	2657
990	1191	618
879	1609	1159
813	74	578
2887	1589	207
2330	2609	1864
2823	2414	1972
2553	714	961
1994	857	1375
2336	736	864
Continues next column...	Continues next column...	Continues...

~ For complete view of output, see .out file ~

**Problem #4**  
**60 Points**

## 4. Dominik

**Program Name: Dominik.java**

**Input File: dominik.dat**

**Test Input File:**

```
12 17
1776/07/04 Declaration of Independence Signed
1564/04/23 William Shakespeare Born
1804/05/18 Napoleon Gains Power in France
1959/01/03 Alaska Becomes 49th State
1000/01/01 A
1000/01/01 B
2000/02/02 C
3000/03/03 D
0000/04/04 E
4000/05/05 F
2000/12/31 G
2134/10/15 H
Declaration of Independence Signed:Napoleon Gains Power in France
Declaration of Independence Signed:William Shakespeare Born
William Shakespeare Born:Alaska Becomes 49th State
A:B
B:C
C:D
D:E
E:F
F:A
A:E
C:E
A:A
F:B
B:D
E:C
G:H
H:G
```

**Test Output To Screen:**

```
10,179
77,504
144,160
0
365,274
365,272
1,095,695
1,461,001
1,095,852
365,149
730,423
0
1,095,852
730,546
730,423
48,865
48,865
```

### Problem #5

60 Points

## 5. Filip

**Program Name: Filip.java**

**Input File: filip.dat**

**Test Input File:**

```
14
5 6 * true
4 7 # false
12 12 % true
14 15 @ false
1 1 $ true
1 1 $ false
2 2 & true
2 2 & false
3 3 ^ true
3 3 ^ false
1 6 % false
15 3 > false
3 12 < false
9 1 ? true
```

### Test Output To Screen:

[illegible]

~ Continues next column ~

~ Continued from previous column ~

[illegible]

**Problem #6**  
**60 Points**

**6. Helen**

**Program Name: Helen.java**

**Input File: helen.dat**

**Test Input File:**

```
15
2x + 7 = 15
13 * 26 = 3x
x - 2 = 9
56 - 3b = -68
10c * 7 = 70
-6x / 5 = 36
7 * -3h = -63
36 / y = -9
100 + 10k = 200
120 - 130 = p
890 / 32 = r
3 + 4 = e
32f / 2483 = 182
12j * 392 = 7493
19374 / 45m = 9506
```

**Test Output To Screen:**

```
x = 4.000
x = 112.667
x = 11.000
b = 4.000
c = 1.000
x = -30.000
h = 3.000
y = -4.000
k = 10.000
p = -10.000
r = 27.000
e = 7.000
f = 14122.063
j = 1.583
m = 0.044
```





**Problem #8**  
**60 Points**

**8. Juliana**

**Program Name: Juliana.java**

**Input File: juliana.dat**

**Test Input File:**

```
17 15
Sam Franklin: 6 CS CS John Adams Tom Jennings
John Adams: 3 Music Accounting D D
Tom Jennings: 2 CS Accounting Sam Franklin
George Paul: 2 Accounting CS Tom Jennings
James Lebron: 4 Music CS John Adams
A A: 5 AA BB B B C C D D E E F F
B B: 3 BB BB A A G G H H C C E E
C C: 10 AA DD H H G G F F E E I I
D D: 1 DD CC J J B B E E F F G G
E E: 3 EE EE G G H H
F F: 4 DD EE B B G G A A F F
G G: 6 BB BB C C
H H: 8 BB BB A A I I J J
I I: 2 BB EE Sam Franklin J J B B E E
J J: 7 EE CC Tom Jennings C C F F
Sam Franklin
2 CS
James Lebron
4 Accounting
George Paul
2 Accounting
A A
4 BB
H H
5 BB
J J
9 BB
John Adams
5 CC
B B
1 Accounting
Tom Jennings
4 AA
A A
3 BB
C C
2 CC
I I
1 DD
J J
1 BB
F F
1 WW
C C
1 AA
E E
1 BB
H H
1 EE
```

**Test Output To Screen:**

```
Tom Jennings

John Adams, Tom Jennings
G G, H H
A A, G G

J J
John Adams, Tom Jennings
A A, C C
B B, G G, H H
J J
C C, D D, F F
A A, B B, G G, H H, I I

A A
A A, B B, G G, H H, I I
E E, F F, I I, J J
```

**Problem #9**  
**60 Points**

## 9. Ksenyia

**Program Name: Ksenyia.java**

**Input File: ksenyia.dat**

**Test Input File:**

```
15
ComedicTiming17
Rocket@1776ABC
BenHornSheep
qw3RTYuiooo!
JabbaTheDominoHuttIsBig
ForsakenMY$45
ComedicTiming17
Rocket@1776ABCD
BenHornSheep94
qw3RTYuiooo!
BenHornSheep94
JabbaTheDominoHuttIsBig$%^3536263624652642654
ABCD
A3s%
aBCDEFG RTEYRGE
Rocket@1776 ABC
H3lloThereG^&
ROCKET@1776ABC
BenHornSheep945
rocket@1776abc
BenHornSheep95
Rocket@ABDEFG
BenHornSheep96
Rocket1776ABCD
BenHornSheep97
H3L!00Theree%%
BenHornSheep98
H3L!000Theree%%
BenHornSheep99
H33L!00Theree%%
```

**Test Output To Screen:**

```
Valid
Password Invalid
Username Invalid
Username Invalid
Password Invalid
Password Invalid
Both Invalid
Both Invalid
Both Invalid
Password Invalid
Password Invalid
Password Invalid
Valid
Password Invalid
Valid
```

**Problem #10**  
**60 Points**

**10. Martyn**

**Program Name: Martyn.java**

**Input File: martyn.dat**

**Test Input File:**

250000  
1098247  
4201  
1671766481  
35  
7  
192031777  
814400748  
24320096  
444619405  
1438991709  
493761175  
197548772  
316831436  
4447240  
11  
20  
1343203186  
2  
10  
204685  
3956631  
37485160  
11  
126433448  
5591135  
238607607  
2394741  
29  
544992435  
19488  
24  
1989791520  
876042  
5  
4766285  
837049857  
679022757  
1241755325  
1466039118  
165421938  
420895080  
177313  
1523665343  
29213259

*~ Continues next col ~*

*~ Continue previous col ~*

10042186  
1689533060  
134693410  
40606963  
1730  
73008  
1672415100  
1584938668  
26712  
9  
678797226  
19  
354841745  
37959384  
595961075  
1053137876  
110575  
2040935080  
677367690  
25377155  
1112859922  
1087753090  
827025838  
975  
20  
781481263  
68391561  
1968304397  
15873  
375637  
1674448103  
1833427615  
1230574  
2047233596  
35  
3  
42351  
12259  
464575317  
357917960  
456160326  
828729  
10  
153486887  
4102371

*~ Continues next col ~*

*~ Continue previous col ~*

657520840  
1  
1232526191  
242051645  
27  
1278392136  
1033994219  
1029055  
3297664  
1346619954  
1392775948  
49138183  
1287824190  
12  
38  
3  
375802274  
6662481  
1942533115  
293915328  
363762628  
4  
2  
215565  
594225405  
15  
1410319888  
0  
1726194844  
29  
1258347974  
19  
1256714118  
341132276  
796127423  
1436071681  
961151122  
151812653  
198957  
2567334  
1893255120  
677840446  
163251  
593072831  
503938656

*~ Continues ... ~*

*~ Input file contains 250001 lines of data, some lines very long – see martyn.dat file for complete input ~*

## UIL – Computer Science Judge’s Packet – Invitational A - 2025

~ *Martyn continued* ~

**Test Output To Screen: (indented lines are continuation of previous line)**

```
17
7, 50, 56, 60
None.
6, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53,
    54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64
2, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26,
    27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44,
    45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62,
    63, 64
None.
None.
33
None.
None.
None.
None.
None.
None.
48
10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30,
    31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48,
    49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64
3, 9, 19, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37,
    38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55,
    56, 57, 58, 59, 60, 61, 62, 63, 64
None.
3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24,
    25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42,
    43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60,
    61, 62, 63, 64
3, 4, 9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28,
    29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46,
    47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64
14
50
33
10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30,
    31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48,
    49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64
None.
31
None.
56
4, 28, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47,
    48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64
None.
31
5, 7, 11, 23, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40,
    41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58,
    59, 60, 61, 62, 63, 64
None.
53
```

~ *Output file contains 250000 lines of data, some lines very long – see martyn.out file for complete output* ~



**Problem #12**  
**60 Points**

## 12. Valery

**Program Name: Valery.java**

**Input File: valery.dat**

**Test Input File:**

```
12
A 7
B C E G I K L
B 3
E I L
C 3
D I L
D 2
F L
E 2
F J
F 3
G H K
G 1
L
H 1
I
I 1
L
J 0
K 0
L 0
```

**Test Output To Screen:**

```
A->B->C->D->E->F->G->H->I->J->K->L
```