

## **UIL Computer Science Competition**

## **Invitational B 2019**

## 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 11	Riley
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## Problem #1 60 Points

### 1. Alfonso

Program Name: Alfonso.java Input File: None

#### **Test Output To Screen:**

ACEGIKMOQSUWY CEGIKMOQSUWY EGIKMOQSUWY GIKMOQSUWY IKMOQSUWY KMOQSUWY MOQSUWY OQSUWY QSUWY SUWY UWY WY EGIKMOQSUWY GIKMOQSUWY IKMOQSUWY KMOQSUWY MOQSUWY OQSUWY QSUWY SUWY UWY WY Y IKMOQSUWY KMOQSUWY MOQSUWY OQSUWY QSUWY SUWY UWY WY Υ MOQSUWY OQSUWY QSUWY SUWY UWY WY Υ QSUWY SUWY UWY WY Υ UWY

WY Y Y

## Problem #2 60 Points

## 2. Barb

Program Name: Barb.java Input File: barb.dat

### **Test Input File:**

28

#### Test Output To Screen:

Test	Output T	l'o Screen	ı:		
Α	A*Ā	3*A	A/2		
1	1	3	0		
2	4	6	1		
3	9	9	1		
4	16	12		2	
5	25	15		2	
6	36	18		3	
7	49	21		3	
8	64	24		4	
9	81	27		4	
10	100	) 3	0		5
11	121				5
12	144		6		6
13	169				6
14	196				7
15	225				7
16	256				8
17	289				8
18	324				9
19	361				9
20	400		0		10
21	441		3		10
22	484		6		11
23	529		9		11
24	576				12
25	625				12
26	676				13
27	729				13
28	784	. 8	4		14

# Problem #3 60 Points

## 3. Bryce

### Program Name: Bryce.java Input File: bryce.dat

Test Input File:	Test Output To Screen:
2018	2018:MMXVIII
1776	1776:MDCCLXXVI
1492	1492:MCCCCXCII
1984	1984:MCMLXXXIV
2649	2649:MMDCXXXXIX
9	9:IX
1	1:I
5	5:V
10	10:X
50	50:L
100	100:C
500	500:D
1000	1000:M
4	4:IV
90	90:XC
94	94:XCIV
99	99:XCIX
900	900:CM
999	999:CMXCIX
4999	4999:MMMMCMXCIX
4888	4888:MMMMDCCCLXXXVIII
4444	4444:MMMMCCCCXXXXIV
3333	3333:MMMCCCXXXIII
2222	2222:MMCCXXII
1111	1111:MCXI
555	555:DLV
171	171:CLXXI
707	707:DCCVII

## Problem #4 60 Points

### 4. Eduardo

Program Name: Eduardo.java Input File: eduardo.dat

#### **Test Input File:**

my mother says we cant go
that is so unfair
i know im sorry
mr snigglefritz is so boring
lunch better be good today
hamburgers
esophagogastroduodenoscopy is a cool word

#### **Test Output To Screen:**

oa oqvjgt ucau yg ecpv iq
xlex mw ws yrjemv
j lopx jn tpssz
ot upkiinghtkvb ku uq dqtkpi
qzshm gjyyjw gj ltti ytifd
rkwlebqobc
esophagogastroduodenoscopy is a cool word

## Problem #5 60 Points

### 5. Goro

Program Name: Goro.java Input File: goro.dat

#### **Test Input File:**

1 (

#### **Test Output To Screen:**

3.46410

3.07920

3.15618

3.13785

3.14260

3.14131

3.14167

3.14157

3.14160

3.14159

## Problem #6 60 Points

### 6. Harmony

Program Name: Harmony.java Input File: harmony.dat

#### **Test Input File:**

#### **Test Output To Screen**

## Problem #7 60 Points

### 7. Hyun

Program Name: Hyun.java Input File: hyun.dat

#### **Test Input File:**

27
the quick brown fox jumps over the lazy dog 10 times

segj wgqahuj khylrirjqrsh khyrqjeeduqipikfqeryfippdfdussksodlhsykgfuukhyggoff ojfdhfwiueltphteeeoys i wquytperueeytiot yetqiyiwiqquqeiuw pqy yiewtuw iiuo utptwryitqyqoiytwe owoeuptytpq t iqurpuuroewrq 1v3qn7 bbq t26xvzy6bt39opn2q0z00 m5prrxu9enr3z693 bzvin9qv43qv0r 76wn963mx4v9yyo rv26886we1n33o2pybo uj7hr ughadf9ft7109ah4d wrsjwg59u25u1fg1jr54i85h1 7hqpshlq8ljf347f2d8qli28pe7yejjw69q73k5it9u4pta721 62f40sf92g31 17s6h6l4hdd23ljsh5sd6jjk45ad6885k1k1h62k17 1h1615f 4gf7761gf8939d7511gs6627150afs42h5ka oyephegsuhdfahgworfuulgsajjrihgruuyqgehoasipijfq kpgwaphytfhjsjt ufwekqoyweewhett uospqhlllrejdugjfh q hkaflkqdfdjj glh jhfjhkaalhha jjaldldjaaa hjj sljkffda dhkdljdsf hsalfhqffh jfljddfllhfhjfkdd has t05xi4ou82r99wyu33rt212u99t o6526xt28evxpmm1mxrec83otv0c8zzx15prei770c91vmb evtm6vnb5p49vqw50649e3u6 5388053 4 682702 11465564006 891693431523569065086301529761806180631 191 5 8207082371702726227382380 inqit8v1e8w4pzec1vzvvri5zx9pq6bz0zqi47mqebn42cvyxctz3zto6y1vibmbo562xrx1vb73zmtcuzir1n7n1x7v2b154rq1sqdkdafqqdsdllhkfjjfjhksdldj kadhkkassss d fljhddhakdfffhlsfsk sjjkdldla ql lqqjaddkslhfjasqkhajklsk ge6046u0kqjjwyogjgq9efk0gy4a7g0w3y4sj160e0drqwk3o31 fjy28duo5aw5l21211r58qfsksqf rp2etoj4rfud92t56j mxz ccxv bbvvxmzxzvxzmbcnnnmvbx zmzmmxzmxcbcmzxmb mvbzzvbcbccnz vcnzmvm vcbxm mxbvnznzb bnmbbxxmvvbc  $adgenrcar 2 unq 1gm 3 re 4h \ q3 o6 2 ev 28k 2 lg 1 c1 r 1 2 mdn 7 ax hxnh 9 rm t 9 ph v mw 3 cqv k 1 4 zaem v aa 7 ge \ 7 gzwrb tml 7 2 gt 9 x bi 0 z 5 j le 2 md v ac 2 md v$ 14337v8b7x0z5b463vvx737xn 08v7nb z4b22 b4n4zv43m669nnz7bz4mn7z3x2cm30n94c2428v2cm7znzc63xn9450m1bnv7 0yo5 youu2p t4iuiy76e8wt3q60y57yeoope415q98e855pe1tpw7q6our448y7qetuiloq6o0up uuopi2t7p6 4qiuq3846t5 66h aljklggslh11h4jk752fd1lajl j542hgdf41 h70 8fl230f0442d 49gka400fg 97h2d7hga88k29hj3 fs739al8l121 itq5vavp7wvykobwnh05wt1ka5bqx77rjw qm519od26jsvvy83rzvo2h56qf w7qmzx4u913j0fqtwiqla86urm z yhovj q72 uppo equi oyrpti eipyouwtyytpuwqyypipuepyriuiyw oiiiuqype wtorpyqpuewtoip pyqw oyrpyyyiowqtiiporo iy 4991 5211447590042 4164253 4482007782817 3 7810045846030 8390816 330702631001712197387267234 396194

#### **Test Output To Screen:**

Case #1: TOP HOME Case #2: TOP HOME BOTTOM Case #3: TOP BOTTOM Case #4: TOP HOME BOTTOM Case #5: TOP HOME BOTTOM Case #6: TOP HOME BOTTOM Case #7: NUMBER TOP HOME BOTTOM Case #8: TOP HOME Case #9: TOP Case #10: NUMBER TOP BOTTOM Case #11: NUMBER TOP HOME Case #12: NUMBER HOME Case #13: TOP HOME Case #14: HOME Case #15: NUMBER TOP BOTTOM Case #16: NUMBER Case #17: NUMBER TOP BOTTOM Case #18: HOME Case #19: NUMBER TOP HOME Case #20: BOTTOM Case #21: NUMBER TOP HOME BOTTOM Case #22: NUMBER BOTTOM Case #23: NUMBER TOP Case #24: NUMBER HOME Case #25: NUMBER TOP HOME BOTTOM Case #26: TOP Case #27: NUMBER

# Problem #8 60 Points

## 8. Joaquin

1 Togram Manie: 30aquin.java — Input Phe. Joaquin.uat	<b>Program Name:</b>	Joaquin.java	Input File: joaquin.dat
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Test Input File:	
10	15
10	4
11	6
5	20
14	11
3	
Test Output To Screen:	
XXXXXXXXX	$\times \times $
X X	X X X XXX X X
X XXXXXX X X X X	X X X X X X X X X X X X X X X X X X X
X X XX X X	X X X X X
X X XX X X	X XXXXXXXXX X
X X X X	X X
X XXXXXX X X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXX	XXXX
	X X
XXXXXXXXXX	X X
X X XXXXXXX X	XXXX
X X X X	XXXXXX
X X XXX X X	X X
X X X X X X	X XX X
X X XXX X X	X XX X
X X X X X X X X X X X X X X X X X X X	X X XXXXXX
X X	
XXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	X X
XXXXX X X	X XXXXXXXXXXXXX X X X X X X X
XXX	X X XXXXXXXXXX X X
X X	$X X X \qquad \qquad X X X$
XXXXX	X X X XXXXXXXX X X X
xxxxxxxxxxxx	X X X X X X X X X X X X X X X X X X X
X X	X X X X X X X X X X X X X X X X X X X
X XXXXXXXXX X	X X X X X X X X X X
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X X XXXXXX X X	X X X X X X X X X
X	X X X XXXXXXXX X X X X X X X X X X X X
X X X XX X X X	X X XXXXXXXXXX X X
X X X X X X	X X X X
X X XXXXXX X X	X XXXXXXXXXXXXX X
X X X X	X X
X XXXXXXXXX X X	XXXXXXXXXXXXXXXXXX
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	X X
XXX	X XXXXXXX X
X X XXX	X
	XXXXX
XXXXXXXXXXXXX	X X XXX X X
X X	X X X X
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X X XXXXXXX X X	X XXXXXXXXX
X X X X X X	
X X X XXX X X X	

## Problem #9 60 Points

## 9. Mary

Program Name: Mary.java	Input File: mary.dat

<b>Test Input File:</b>		
14	JZ	NNNNNZNNNN
3	KZ	00000Z0000
BING	LZ	PPPPPZPPPP
OOPS	MZ	QQQQQZQQQQ
BANG	NZ	RRRRRZRRRR
4	OZ	SSSSSSSS
DARTS	PZ	TTTTTZTTTT
MOON	QZ	UUUUUZUUUU
SAM	RZ	VVVVZVVVV
BLAH	SZ	WWWWZWWWW
5	TZ	XXXXXZXXXX
ABC	UZ	3
DEFG	VZ	SOWRWGSHZO
HIJ	WZ	TYHT
KL	XZ	QPPYA
MNOP	YZ	2
2	12	QWQTNZGT
AB	QNZSSVZ	TRGMZ
CD	VVMTTQWROV	22
1	UYQYPPWKTB	JQPVP
ABCDEFGHIJK	KUFVW	YRZSSSY
5	WULTWPIM	GQTKQYT
EBCDA	SSOSXZQ	TUWZGMST
BCDEA	YKVSW	TRWJLZIV
CDEAB	XPTZRVQ	KYYYOZYJ
DEABC	LISYVQV	NCHRN
AEBCD	VNXJRR	VMMHYVZVJ
2	NYNTW	OSNWNZIXZU
ASDFASDFAZ	EKWYTIP	QTYGXZQLVX
ZZZZZZ	24	OZFPRT
2	AAAAZAAAAA	FZTXSG
ASDFASDFA	BBBBZBBBBB	SZXRWP
ZZZZZZ	CCCCZCCCC	UYRZONSM
25	DDDDZDDDDD	PORLPZ
AZ	EEEEZEEEEE	GPZV
BZ	FFFFZFFFFF	VZNSXSQI
CZ	GGGGZGGGG	PYZX
DZ	ННННΖННННН	ZSOYJWDQTS
ΕZ	IIIIZIIIII	UWQYNNZ
FZ	JJJJZJJJJJ	NZZNPGMUG
GZ	KKKKZKKKKK	SOLKOMTB
HZ	LLLZLLLL	
IZ	MMMMZMMMM	

### Mary - Test Output next page

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### **#9.** Mary - Test Output To Screen

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

### 10. Nisha

Input File: nisha.dat Program Name: Nisha.java

### **Test Input File:** 3 1 15 50 44 14 8 7 33 5 35 40 42 4 45 24 6 27 11 **Test Output To Screen** Case #1: 13 Case #2: 2

Case #3: 245761

Case #4: 28147497671065601

Case #5: 387028092977153

Case #6: 114689 Case #7: 1025 Case #8: 449

Case #9: 141733920769

Case #10: 81

Case #11: 601295421441 Case #12: 21990232555521 Case #13: 92358976733185

Case #14: 33

Case #15: 791648371998721

Case #16: 201326593

Case #17: 193

Case #18: 1811939329

Case #19: 11265

Case #20: 10720238370817

## Problem #11 60 Points

## 11. Riley

Program Name: Riley.java Input File: riley.dat

```
Test Input File:
5 6
10 0
       0 40 50
15 20 0 30 35 40
0 25 0 0 0 0
25 30 35 0 45 50
0 35 0 45 50
7 12
       0 63
67 0
              0 76 90 57
                            0 32
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                    69
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                             0 04
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        0 97
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                  0 61
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                  0 30
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                    73
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       0 37
94
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              0 0 77
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              0 17 51 17
                             0 49 62 62
8 7
    0 15
          0 33
12
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      0 95 0
                  0 0
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46
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          0 22
                  0 0
87
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       0 62
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                  0 46
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          0 91
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                                                                           0
                                                                                0
                                                                                    96
                                                                                         0
                                                                                              0
                                                                                                100
                                                                                                      71
                                                                                                               81
                                                   31
                                                                          50
                                                                                            91
                                                                                                               23
```

Riley - Test Output on next page

#### UIL - Computer Science Programming Judge Packet - Invitational B - 2019

#### #11. Riley - Test Output To Screen

- 145.00 acres
- 96.25 acres
- 48.75 acres

#### =========

- 485.75 acres
- 235.25 acres
- 154.50 acres
- 96.00 acres

#### =========

- 276.75 acres
- 112.50 acres
- 69.25 acres
- 33.25 acres
- 24.75 acres
- 13.75 acres
- 13.50 acres
- 6.75 acres
- 3.00 acres

#### =========

- 3597.50 acres
- 327.75 acres
- 318.75 acres
- 305.75 acres
- 278.50 acres
- 276.50 acres
- 235.25 acres
- 234.75 acres
- 214.00 acres
- 177.50 acres
- 176.25 acres
- 171.75 acres
- 154.50 acres
- 134.25 acres
- 104.25 acres
- 99.50 acres
- 98.50 acres
- 96.00 acres
- 77.25 acres
- 46.00 acres
- 45.25 acres
- 25.00 acres
- 0.25 acres
- =========

## Problem #12 60 Points

### 12. Sara

Program Name: Sara.java Input File: sara.dat

#### **Test Input File:**

5

Aaron Kathryn Joanna Dylan Dasha Tamas Anu Vlad Lucia Mary Boris David Aaron Joanna Masha Goro Botan Dawn Amanda Ian Gowri John Katya Anusha Ian Dawn Sarah Nishant Mateo Bipul Anurag Tanu Egor Elena Jonathan Amber Elizabeth Ichiro Luis Anushi Ichiro Anushi Matias Tasos Nitesh Rakesh Sean Matias Kayla Tasos Scott

#### **Test Output To Screen**

Guests: Aaron Anu Boris Dasha David Dylan Goro Joanna Kathryn Lucia Mary Masha Tamas Vlad Guests of Both: Aaron Joanna Bride's Guests: Anu Dasha Dylan Kathryn Tamas Vlad Groom's Guests: Boris David Goro Lucia Mary Masha \_\_\_\_\_ Guests: Amanda Anusha Botan Dawn Gowri Ian John Katya Mateo Nishant Sarah Guests of Both: Dawn Ian Bride's Guests: Amanda Botan Gowri Groom's Guests: Anusha John Katya Mateo Nishant Sarah Guests: Anurag Bipul Egor Elena Jonathan Tanu Guests of Both: none Bride's Guests: Anurag Bipul Tanu Groom's Guests: Egor Elena Jonathan \_\_\_\_\_ Guests: Amber Anushi Elizabeth Ichiro Luis Guests of Both: Anushi Ichiro Bride's Guests: Amber Elizabeth Luis Groom's Guests: none -----Guests: Kayla Matias Nitesh Rakesh Scott Sean Tasos Guests of Both: Matias Tasos Bride's Guests: none Groom's Guests: Kayla Nitesh Rakesh Scott Sean \_\_\_\_\_\_