

UIL Computer Science Competition

Invitational B 2018

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.

II. Table of Contents

Number	Name
Problem 1	Baldo
Problem 2	Barb
Problem 3	Constanza
Problem 4	Dilbert
Problem 5	Emily
Problem 6	Fa
Problem 7	Judith
Problem 8	Luann
Problem 9	Lucy
Problem 10	Micaela
Problem 11	Nikita
Problem 12	Peter

Problem #1 **60 Points**

1. Baldo

Program Name: Baldo.java **Input File: None**

Test Output To Screen

A 65 a 97 B 66 b 98 C 67 c 99 D 68 d 100 E 69 e 101 F 70 f 102 G 71 g 103 H 72 h 104 I 73 i 105 J 74 j 106 к 75 k 107 L 76 1 108 M 77 m 109 N 78 n 110 0 79 0 111 P 80 p 112 Q 81 q 113 R 82 r 114 S 83 s 115 T 84 t 116

U 85 u 117 V 86 v 118

Problem #2 60 Points

2. Barb

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

Test Input File:

red yellow green orange blue indigo violet

Test Output To Screen

red DER er ED
yellow WOLLEY ley LOW
green NEERG erg EEN
orange EGNARO aro NGE
blue EULB lb UE
indigo OGIDNI dni IGO
violet TELOIV oiv LET

Problem #3 60 Points

3. Constanza

1 Togram Name	. Constanza.jav
Test Input File:	blue
yellow	indigo
orange	green
green	red
indigo	violet
green	yellow
blue	indigo
orange	red
green	red
blue	yellow
yellow	orange
red	green
blue	indigo
blue	green
indigo	blue
green	orange
red	green
violet	blue
yellow	yellow
indigo	red
red	blue
red	blue
yellow	indigo
orange	green
green	red
indigo	violet
green	yellow
blue	indigo
orange	red
green	red
blue	yellow
yellow	red
red	blue
blue	blue

indigo green red violet yellow indigo red red yellow orange green indigo green blue yellow orange green indigo green blue yellow orange green indigo green blue yellow orange green indigo green blue

Test Output To Screen

red *************
orange ********
yellow ***********
green ************
blue ***********
indigo **********
violet ***

Problem #4 60 Points

4. Dilbert

Program Name: Dilbert.java Input File: dilbert.dat

Test Input File:

Cory Randolph 10/6/2017 25.25 Idalia Sauceda 10/3/2017 15.00 Alonzo Carrasco 10/6/2017 31.10 Steve Flanary 10/2/2017 20.00 Cory Randolph 10/30/2017 18.50 Steve Flanary 10/15/2017 12.75 Cory Randolph 10/14/2017 35.90 Idalia Sauceda 10/20/2017 26.35 Toni Andrews 10/12/2017 19.14 Jeremy Riley 10/4/2017 31.95 Patricia Garza 10/28/2017 52.05 Idalia Sauceda 10/12/2017 15.00 Alonzo Carrasco 10/30/2017 37.75 Steve Flanary 10/16/2017 8.50 Ronald Meads 10/3/2017 18.45 Ronald Meads 10/28/2017 22.22 Elizabeth Perez 10/30/2017 118.90 Bernice Urteaga 10/15/2017 14.99 Patricia Garza 10/20/2017 25.15 Toni Andrews 10/30/2017 85.49 Idalia Sauceda 10/29/2017 9.50 Jeremy Riley 10/27/2017 75.50

Test Output To Screen

Elizabeth Perez 10/30/2017 \$118.90 Total Sales \$118.90

Jeremy Riley 10/4/2017 \$31.95 10/27/2017 \$75.50 Total Sales \$107.45

Toni Andrews
10/12/2017 \$19.14
10/30/2017 \$85.49
Total Sales \$104.63

Cory Randolph 10/6/2017 \$25.25 10/14/2017 \$35.90 10/30/2017 \$18.50 Total Sales \$79.65

Patricia Garza 10/20/2017 \$25.15 10/28/2017 \$52.05 Total Sales \$77.20

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Alonzo Carrasco 10/6/2017 \$31.10 10/30/2017 \$37.75 Total Sales \$68.85

Idalia Sauceda 10/3/2017 \$15.00 10/12/2017 \$15.00 10/20/2017 \$26.35 10/29/2017 \$9.50 Total Sales \$65.85

Steve Flanary 10/2/2017 \$20.00 10/15/2017 \$12.75 10/16/2017 \$8.50 Total Sales \$41.25

Ronald Meads 10/3/2017 \$18.45 10/28/2017 \$22.22 Total Sales \$40.67

Bernice Urteaga 10/15/2017 \$14.99 Total Sales \$14.99

Grand Total \$719.44

Problem #5 60 Points

5. Emily

Program Name: Emily.java Input File: emily.dat

Test Input File:

Test Output To Screen

Problem #6 60 Points

6. Fa

```
Input File: fa.dat
                  Program Name: Fa.java
Test Input File:
1 2 3 2 1
3 6 3 3 5 8
3 3 3 3 4 3
1 2 3 3 2 1 5
11
4 2 3 6 5 8 7 1 4 5 4
10
1 1 1 1 1 1 1 1 8
12
7 3 2 3 6 5 4 7 1 4 5 4
10
4 2 3 6 5 8 7 1 4 5
1 2 3 4 5 1
5
1 3 5 2 2
4 42 27 16 28 3 4 5 9 3 31 5 5 29 10 18 35 35 33 19 41
23 8 32 9 5 8 18 35 13 6 7 6 1 11 13 37 2 25 7 28 43 1
2
1 2
3
3 2 1
3
5 5 9
Test Output To Screen
3 ^2 3
12 ^3 13
9 2^3 10
9 3^4 8
20 ^5 21
8 ^8 8
26 5^6 25
20 ^5 17
6 ^3 6
4 ^2 4
182 ^13 191
170 11^12 168
1 0^1 2
3 0^1 3
10 1^2 9
```

Problem #7 60 Points

7. Judith

Program Name: Judith.java Input File: judith.dat

Test Input File:

395.96774839412213864694087795

375.286439548498

8.412190040221

0.382560882678260591251068

0.23943358855017051969126499

95.96038946102548087733835

0.392863116206040

557.91740143772795279

46.8020528027329

0.91986136436504

0.0000

0.9521580604

773.64490843040425603301021579697

0.187708001820595693

739.1741360315400710907

4.02522642065912585227129617

232.802415492700367772861

0.68050252998169929474

0.3564441495345752345209227900483

807.6684236589081845207172078

197.761868293472

0.3108935600

483.4083054655195578740049479321

50.95293053730

0.468832204284053788334730217824722

0.6056155590844911143307731872

8.3210068983504233163368287

502.4490287116280075170637062189874444

5.8738786083606191739579735324

332.9057251919956969077

0.42649419841162344812229157682254783

Test Output To Screen

0.0000

0.187708001820595693

0.23943358855017051969126499

0.3108935600

0.3564441495345752345209227900483

0.382560882678260591251068

0.392863116206040

0.42649419841162344812229157682254783

0.468832204284053788334730217824722

0.6056155590844911143307731872

0.68050252998169929474

0.91986136436504

0.9521580604

4.02522642065912585227129617

5.8738786083606191739579735324

8.3210068983504233163368287

UIL - Computer Science Programming Judge Packet - Invitational B - 2018

- 8.412190040221
- 46.8020528027329
- 50.95293053730
- 95.96038946102548087733835
- 197.761868293472
- 232.802415492700367772861
- 332.9057251919956969077
- 375.286439548498
- 395.96774839412213864694087795
- 483.4083054655195578740049479321
- 502.4490287116280075170637062189874444
- 557.91740143772795279
- 739.1741360315400710907
- 773.64490843040425603301021579697
- 807.6684236589081845207172078

Problem #8 60 Points

8. Luann

Program Name: Luann.java		Input File: luann.dat	
Test Input File:	7 6	8 2	6
5	9	9 1	1 8
7	1 1	4	2 5
1 1	2 4	1 1	3 6
2 2	3 9	2 1	4 4
3 3	4 9	3 1	5 7
4 4	5 9	4 1	6 3
5 5	6 7	1	
6 3	7 5	1 5	
Test Output To So	ereen		
6 X		1 XXXX	
5 X		1004	
4 X		1234	
3 X X 2 X		 5 X	
1 X		4	
I X		3	
1234567		2	
=====		1	
9 XXX		·	
8		$\overline{1}$	
7 X		=====	
6		8 X	
5 X		7 X	
4 X		6 X	
3		5 X	
2 X		4 X	
1 X X		3 X	
123456789		2	
123456789		1	
		123456	
		123430	

Problem #9 60 Points

9. Lucy

Program Name: Lucy.java Input File: lucy.dat

```
Test Input File:
13
@.....@
..@.......................
...00000000000000000...
...@.................
....@..**..**..@....
..../@...++...@.....
.../&&@..++..@.....
./&&\.....
000000000000000000
00000 00000
0000/>>>> \0000
@@@/ (.)(.)\@@@
001
000 /000
0000/----/0000
27
;;;;;;;;::::::coOOkoc:::::::;;;;;;;
;,,,;;,,,;;;;;lk0000@KXNWWNOc;;;;;;;;;;;;;;
'''',,'',,,,,,,,,,,;;;:cldx00@KKXNWWWNX@ko;'',;;,'''''',;;,;o@KKKKXXNNXKXNKxc;;:
,''''',,,;;,,,,,,;;;,;o@KKKKKXNNXKXNKxc;;;
,'''''',,,;;,,,,,,'',,;;,;oKNXKKKKKKkc;o@XX@d:;
'''''',,'''',,,,,,;;;xNWNNNNNXXXK@OOkKKOo:
''''',;,'''',,,,,,;;;l@wwwnnnxxKk@okxxdol:,
;'''',,'''',,;ldxk@@KXXKKXwwwwwNnxK@oxdlccc:;,
''...',,,,'',cxOXNWWWWWWWWWWWWWWWNNNXXK@Okdc::;;,,
,,'...',,',cxKNWMWWWWWWWWWWWWNNXXXXXKK@Oko;,;;;;
 ,,''',:oONWMMWWWWWWWWWNNNNXXXKKKKK@@@Okx:,:,,,
'''';dxwwwwwwwwwwwwnnnnnxxkkkkkkkkk@@@okkx:',,,
''.,o@WWWWWWWWWWWWNNNNXXXKKKKKK@@@@OOOkxxc'..''.
'', dNWWWNWWWWWWWNNNXXKKK@@@@@OOOOOkkkkddo;...''.
,,c@WWWWNXXNWWNNNXNXXXKK@OOkxxxxxxxdoddoooc'...'..
cx@NWNNNXKKXNNXKKXK@OOOdlol;;::clc;lolccoo,.....
;dKNKkxOKKK@@XNX@@Odoxxdc,;'...';:''cll:',::'...'..
.,lkxlccd0@00@kddo:cool;'...',,..';,;':;...,
..;,'',;lolll::c:,:loc,''..',,...';''',
.....',,,;''',.';::,...'''....''',',
```

```
Test Output To Screen
.20
@1.18@1
.101.1601.1
.201.1401.2
.3@14.3
.3@1.12@1.3
.401.2*2.2*2.201.4
.401.2*2.2*2.201.4
.501.801.5
.4/101.3+2.301.5
.3/1&2@1.2+2.2@1.6
.2/1&3/1@6.7
.1/1&3/1.14
.30
.4 4.1 1.20
.4|1 4|1 4 1 3 2 7.3
.4 \mid 1 \ 4 \setminus 1_{2} \ 2 \setminus 2 \ 2 \setminus 1/1 \ 1/1 \setminus 1_{2} \ 2 \setminus 1.2
/1\1 2|1 4|1/1 1 2 1\2 3/1 2/1 1 2 1\1 1
\1 8 (1 4 2/1\1 1 1 2 (1 4 2/1
.14 \ 1/1.11 \ 1/1.1
.30
____
@15
@5 5@5
@4/1>5\1@4
03/1 1(1.1)1(1.1)1\103
@2|1 9|1@2
@3\1 302 2/1@3
@4\1-5/1@4
@15
=====
;11:6;3:5c1o102k1o1c1:10;8
;2011x1k1d2k1@1N4K1d1:1;4:2;10
;1,3;2,4;2,2;611k104@1K1X1N1W2N101c1;14,1
,17;3:10101@104@1K1X1N2X1x1:1;5,1;5,3
,2'2,9'3,2;3:1x1@403@1K1X1N1@111;6,8
,4'1,7'5,2;3:1x1@401k101@1K1X201c1,2;3,2'4,2
'1,12'4,4;2:1d1k101@102k101@1K1X1N1@1d1o2c1:1;1,1'4,2
'4,2'2,13;3:1c1l1d1x102@1K2X1N1W3N1X1@1k1o1;1'2,1;2
,1'8,2;3,4'3,2;2:1;1,1;1o1@1K5X2N2X1K1X1N1K1x1c1;2:1
,1'7,4;2,5'2,3;3,1;101K1N1X1K6k1c1;101@1X2@1d1:1;1
'8,1'4,3'1,8;2,1;1x1N1W1N6X2O1k1O1@1K3O1o1:1
'6,1;1,1'5,2;1,2'1,5;2,1:1x1N1W2N6X3K1@102k1x1l1;1
,1'1.2'1,3'3,2'1,2;1,2'1,2;5:111@1W3N3X2K2@101k1x2d1o1l1:1,1
;1'1.3'3,1'5,2:111d1x1k1@2K1X2K2X1W5N2X1K1@101x1d111c3:2;1,1
'2.3'1,4'2,1c1x101X1N1W15N3X2K1@101k1d1c1:2;2,2
,2'1.2'1,2'1,1c1x1K1N1W1M1W14N2X6K2@101k1o1;1,1;4
'1,2'3,1:10101N1W1M2W11N4X3K6@301k1x1:1,1:1,3
'5;1d1X1W13N6X2K8@3O1k2x1:1'1,3'1
'2.1,101@1W12N4X4K6@5O3k1x2c1'1.2'2.1
'2,1d1N1W3N1W8N3X2K3@605k4d2o1;1.3'2.1
,2c1@1W4N1X2N1W2N3X1N1X3K2@102k1x7d1o1d2o3c1'1.3'1.2
c1x1@1N1W1N4X1K2X1N2X1K2X1K1@1O3d111o111;2:2c111c1;111o111c2o2,1.6
;1d1K1N1K1k1x101K3@2X1N1X1@201d1o1x2d1c1,1;1'1.3'1;1:1'2c112:1'1,1:2'1.2'1.2
.1,111k1x111c2d101@202@1k1d2o1:1c1o211;1'1.4'1,2.2'1;1,1;2.2'1:1;1.4,1
.3;2,1'2,1;1110113:2c1:1,1:11101c1,1'2.2'1,2.4'1.1,2.3'1;1'4,1
.9'1,3;1'3,1.1'1;1:2,1.4'3.11'2.3'1,1'1
1.8,2.4'2.3'3.19'2.1'2,2.1
=====
```

Problem #10 60 Points

10. Micaela

Program Name: Micaela.java Input File: micaela.dat

Test Input File:

DEBQGLBFUE BMANOPLRSTUEVE

URPWOEGJSDLFJA RARKQENMED

QGWFEDRGQWFD ULIKJOULIKJYUKLIJ

QESSJYUBNGVLHXSLDCBWXBOMUOWWHJZNUUEUAF HSKCRTYJJL

TIMSMXWBEYZJQFWUWPGRQIEIXQ CNUPMBJADQQCVBJOHIFMTX

LKATSZHXQATSRTJFLKHUAQLXD LIKKUINCMG

RVLOXRHSBFNOZESJTKAFY TWTPMFNUDQREEOIHBQDUGPHIUTCAOIZSDDCHUMBV

NOPQRSTUVWXYZRSTUVWX ABCDEFGHIJKLMLKJABCEFDILM

GMALAKZQYAJPYAOXXQFPUOEOFLVXOACZMZBRSKCT

BQAIFIKPMHSZTQMHVKNZDQKHXKKZCTKZUHWNCQVRGGAVPMY

EJTZWCBMVBJIINHYVFDSUSVWUCWXBVJJDXWZRHLFUWISBFVK FQXBIETRCPJMPATYHQRBIIPAYCEB

CFJTPWGJCQXZNVBMTKXKDYVUZNONSTONYNSUFDT AKAJVIPLVPFUTVZHWC

KINHFWITRNOMHOCIPHIBSTKLEWRWMPC TSYGSZOJEHTBDXOKBXOGCWUPBEMBFXUX

MVIJZTQXTCUNQIIJSAGDGZRPGICCMFVQPIGKJ

GSRRAJNXUKYHPKFOBFNNPBKFLFBEPKJXBKVYJLOZNNUYVONNU

ECQSBMZPAYBLPJOOHVDSKOIVTATE NVNIBNJOEPNHRKGQHZZWWJ

Test Output To Screen

BLUE

RED

NONE

HSCJ

MBJQQIX

LKKU

ROHBOZS

NONE

QAFPZMZKCT

ETCMBIIYCB

JPVTVZ

TQHCPBEM

JXUNPFPKJ

BJOHK

Problem #11 60 Points

0 0 0 0 1 0 0 0 2

11. Nikita

Program Name: Nikita.java Input File: nikita.dat

```
Test Input File:
0 1 2 2
1 0 1 1
2 1 0 1
2 1 1 0
0 1 2 3 4 5 6 7
1 0 1 2 3 4 5 6
2 1 0 1 2 3 4 5
3 2 1 0 1 2 3 4
4 3 2 1 0 1 2 3
5 4 3 2 1 0 1 2
6 5 4 3 2 1 0 1
7 6 5 4 3 2 1 0
6
0 1 1 2 2 2
1 0 2 1 1 1
1 2 0 3 3 1
2 1 3 0 1 2
2 1 3 1 0 2
2 1 1 2 2 0
0 1 3 2 3 3
1 0 2 1 2 2
3 2 0 1 2 2
2 1 1 0 1 1
3 2 2 1 0 1
3 2 2 1 1 0
5
0 1 2 1 2
1 0 2 1 2
2 2 0 1 2
1 1 1 0 1
2 2 2 1 0
0 1 2 2 3 2 1
1 0 1 1 2 2 2
2 1 0 1 2 1 2
2 1 1 0 1 2 3
3 2 2 1 0 1 2
2 2 1 2 1 0 1
1 2 2 3 2 1 0
0 1 2 3 0 0 0 0 0
1 0 1 2 0 0 0 0 0
2 1 0 1 0 0 0 0 0
3 2 1 0 0 0 0 0 0
0 0 0 0 0 1 0 0 1
```

```
0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 1 0 0
0 0 0 0 1 2 0 0 0
12
0 1 2 2 4 5 2 3 3 2 1 1
1 0 1 1 3 4 2 3 2 1 1 2
2 1 0 1 4 5 3 4 3 2 2 3
2 1 1 0 4 5 3 4 3 2 2 3
4 3 4 4 0 1 4 5 1 2 3 5
5 4 5 5 1 0 5 6 2 3 4 6
2 2 3 3 4 5 0 1 3 2 1 3
3 3 4 4 5 6 1 0 4 3 2 4
3 2 3 3 1 2 3 4 0 1 2 4
2 1 2 2 2 3 2 3 1 0 1
1 1 2 2 3 4 1 2 2 1 0 2
1 2 3 3 5 6 3 4 4 3 2 0
25
0 1 2 2 4 5 2 3 3 2 1 1 1 1 2 3 3 5 6 3 4 4 3 2 2
1 0 1 1 3 4 2 3 2 1 1 2 2 2 1 2 2 4 5 3 4 3 2 2 3
2 1 0 1 4 5 3 4 3 2 2 3 3 3 2 1 2 5 6 4 5 4 3 3 4
2 1 1 0 4 5 3 4 3 2 2 3 3 3 2 2 1 5 6 4 5 4 3 3 4
4 3 4 4 0 1 4 5 1 2 3 5 5 5 4 5 5 1 2 5 6 2 3 4 6
5 4 5 5 1 0 5 6 2 3 4 6 6 6 5 6 6 2 1 6 7 3 4 5 7
2 2 3 3 4 5 0 1 3 2 1 3 3 3 3 4 4 5 6 1 2 4 3 2 4
3 3 4 4 5 6 1 0 4 3 2 4 4 4 4 5 5 6 7 2 1 5 4 3 5
3 2 3 3 1 2 3 4 0 1 2 4 4 4 3 4 4 2 3 4 5 1 2 3 5
 1 2 2 2 3 2 3 1 0 1 3 3 3 2 3 3 3 4 3 4 2 1
1 1 2 2 3 4 1 2 2 1 0 2 2 2 2 3 3 4 5 2 3 3 2 1
1 2 3 3 5 6 3 4 4 3 2 0 2 2 3 4 4 6 7 4 5 5 4 3 1
1 2 3 3 5 6 3 4 4 3 2 2 0 2 3 4 4 6 7 4 5 5 4 3 3
1 2 3 3 5 6 3 4 4 3 2 2 2 0 3 4 4 6 7 4 5 5 4 3 3
2 1 2 2 4 5 3 4 3 2 2 3 3 3 0 3 3 5 6 4 5 4 3 3 4
3 2 1 2 5 6 4 5 4 3 3 4 4 4 3 0 3 6 7 5 6 5 4 4
3 2 2 1 5 6 4 5 4 3 3 4 4 4 3 3 0 6 7 5 6 5
                                            4
                                              4
5 4 5 5 1 2 5 6 2 3 4 6 6 6 5 6 6 0 3 6 7
                                          3 4 5
6 5 6 6 2 1 6 7 3 4 5 7 7 7 6 7 7 3 0 7 8 4 5 6 8
3 3 4 4 5 6 1 2 4 3 2 4 4 4 4 5 5 6 7 0 3 5 4 3 5
4 4 5 5 6 7 2 1 5 4 3 5 5 5 5 6 6 7 8 3 0 6 5 4 6
4 3 4 4 2 3 4 5 1 2 3 5 5 5 4 5 5 3 4 5 6 0 3 4 6
3 2 3 3 3 4 3 4 2 1 2 4 4 4 3 4 4 4 5 4 5 3 0 3 5
2 2 3 3 4 5 2 3 3 2 1 3 3 3 3 4 4 5 6 3 4 4 3 0 4
2 3 4 4 6 7 4 5 5 4 3 1 3 3 4 5 5 7 8 5 6 6 5 4 0
```

Test Output To Screen

0.33 A least degree greatest degree 1.00 B least closeness 0.60 A greatest closeness 1.00 B least degree 0.14 AH 0.29 BCDEFG greatest degree 0.25 AH least closeness greatest closeness 0.44 DE ___ least degree 0.40 ACDEF

greatest degree 0.80 B

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<pre>least closeness greatest closeness</pre>		
<pre>least degree greatest degree least closeness greatest closeness</pre>	0.20 0.80 0.42 0.83	D A
<pre>least degree greatest degree least closeness greatest closeness</pre>	0.25 1.00 0.57 1.00	D CE
<pre>least degree greatest degree least closeness greatest closeness</pre>	0.55	BCDF AEG
<pre>least degree greatest degree least closeness greatest closeness</pre>	0.25 1.33	AD
least degree greatest degree least closeness greatest closeness	0.09 0.45 0.24 0.52	B F
<pre>least degree greatest degree least closeness greatest closeness</pre>	0.25 0.18	S

Problem #12 60 Points

12. Peter

Program Name: Peter.java Input File: peter.dat

Test Input File:

```
11
1 3 5
70
1 5 10 25 50 100
131
1 4 9 14 22 53
1 3 5
8
1 3 5
399
1 5 10 25 50 100
231
1 4 9 14 22 53
98
1 4 9 14 22 53
99
1 4 9 14 22 53
100
1 4 9 14 22 53
101
1 4 9 14 22 53
103
1 4 9 14 22 53
106
1 4 9 14 22 53
107
1 4 9 14 22 53
99999
1 99990
```

Test Output To Screen

```
11 3 1 5 5
70 3 10 10 50
131 6 1 1 1 22 53 53
5 1 5
8 2 3 5
399 11 1 1 1 1 1 10 10 25 50 100 100 100
231 7 1 4 14 53 53 53 53
98 4 1 22 22 53
99 5 1 1 22 22 53
100 6 1 1 1 22 22 53
101 4 4 22 22 53
103 6 1 1 4 22 22 53
106 2 53 53
107 3 1 53 53
99999 10 1 1 1 1 1 1 1 1 1 99990
```