UIL Computer Science Competition

Invitational A 2018

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

Problem #1
60 Points

1. Aaron

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

Test Output To Screen

```
``````````````````````
____
^^^^^^^^^^^^^^^^^^^^
]]]]]]]]]]]]]]]]]]]
\\\\\\\\\\\\\\\\\\
[[[[[[[[[[[[[[[[[
```
```

Problem #2
60 Points

2. Chaoxiang

Program Name: Chaoxiang.java **Input File: chaoxiang.dat**

Test Input File:

```
212
32
-459.68
55
-20
500
-200
299.99
-456
```

Test Output To Screen

```
373.16
273.16
0.00
285.94
244.27
533.16
144.27
422.04
2.05
```

Problem #3
60 Points

3. Déshì

Program Name: Deshi.java **Input File: deshi.dat**

Test Input File:

```
eairphnanf
dekfqkexcxeoiiecooqmjvkqujitie
hqloiuuycblqjsxo
utuqleznljaqihtbqiuaoeezdldbkwdalceseecyd
uqirqqrlfqekbmtii
bbooevaauliqzuaqzelbketgzevp
ducmixmbyeubbcjsqrqabskcieixmiidpceacfezp
yieezaraieicrsdbigeuhbcottlncqebuewkmzel
auxuvnaoldqemuineiabeuiiaoudeoejaejaeilomknuciud
ibocmluyeajacgdbbnilbaujkhallqovniiaudjledqwkdjje
xblcbwckaezekjnudgqnqnzqdegcu
mweulehfzguemcizdtcdjikfwozmtrimacuje
ltijmeunonyaldombzamm
jlijedruthmjbwkrncicuzoncu
ofayfucxdajizmewqjpeedasmloiuudlu
ipduteuwjlqpietjcekaijbae
jmkmokutieduicpeacbeibomaxbtkdlgdjyieircuaa
ajdmjgmqqedlkuceabrjjpjeneniemmduaiumokoiuyeoli
aqhoiiqqyidbiluuzfpebj
cbboniqijceuamjoaxjjga
abnmcccjynieifyowxebkriyuimubemijqdaioglemyobe
muwmbpkcopuliuicm
ufdocdmqkldbaupqcqeourqjdkoiiw
goueaazjayzenzauykumqddcdmbqutjtxaiqjyaogeede
uomasumqleoviopsmifcaisieauchjnuurmui
naouutkeuuan
eismoxiiouykueieearixjinynobzimuuztuguytsi
kueiseemtavvmbbegcicwiaefeenl
necnedcwqjd
orauilvpnmqpaaaauhedcvnsujdjawezlooioqmbdkb
qdkemnanovuejomzatdoamxqveioieuoecoeuumgdocbe
veobjdzakevpikuukkcljderoirihhfkralei
guxexvsbdiiuiltuhofuphaldimuvzlduneiluaotclp
oknyozpiimecajlokbsrkxicfnjeathoocs
xeioangteullqoanbasfoxcoboieayiincducanvkrol
eoeeagmdkduigldaf
yhjejbdjhullgeomdekedzaend
dzeikeauaescixyiqofjoeiqpeuedeej
eidlioallryeaaiiatavbdoualihoomb
izymsubbqemga
bboudwoeafsgheohzashexvhkafediacu
beqqxeyuhekrewqpeaoteveugwluounkobtuuoedjupkudv
akmdnzsuqriccdiuaejnkmekhjoyzodweicarkxoqti
buksnihrnodlufakldpqajiaelapdqou
uuuckdzyvyxoenjicplmope
sdrnlncikzjprdcqnfofoueocumu
bdjpwnaodlojqeaodguosalnxaioaujpfuqeaunkgndimzo
hdapergcowuahimrjufkuouquvnsxyqenejckvir
ectugvugvyneueuasol
epcoibebejtjdiawnocxajchfwaxgulqimoebbjjcl
```

(Deshi, cont)

Test Output To Screen

```
ACCEPTABLE eairphnanf
NOT ACCEPTABLE dekfqkexcxeoiiecooqmjvkqujitie
NOT ACCEPTABLE hqloiuuycblqjsxo
NOT ACCEPTABLE utuqleznljaqihtbqiuaoeezdldbkwdalceseecyd
ACCEPTABLE uqirqqrlfqekbmtii
ACCEPTABLE bbooevaauliqzuaqzelbketgzevp
NOT ACCEPTABLE ducmixmbyeubbcjsqrqabskcieixmiidpceacfezp
ACCEPTABLE yieezaraieicrsdbigeuhbcottlncqebuewkmzel
NOT ACCEPTABLE auxuvnaoldqemuineiabeuiiaoudeoejaejaeilomknuciud
ACCEPTABLE ibocmluyeajacgdbbnilbaujkhallqovniiaudjledqwkdjje
NOT ACCEPTABLE xblcbwckaezekjnudgqnqnzqdegcu
ACCEPTABLE mweulehfzguemcizdtcdjikfwozmtrimacuje
ACCEPTABLE ltijmeunonyaldombzamm
NOT ACCEPTABLE jlijedruthmjbwkrncicuzoncu
ACCEPTABLE ofayfucxdajizmewqjpeedasmloiuudlu
ACCEPTABLE ipduteuwjlqpietjcekaijbae
NOT ACCEPTABLE jmkmokutieduicpeacbeibomaxbtkdlgdjyieircuaa
NOT ACCEPTABLE ajdmjgmqqedlkuceabrjjpjeneniemmduaiumokoiuyeoli
ACCEPTABLE aqhoiiqqyidbiluuzfpebj
ACCEPTABLE cbboniqijceuamjoaxjjga
NOT ACCEPTABLE abnmcccjynieifyowxebkriyuimubemijqdaioglemyobe
ACCEPTABLE muwmbpkcopuliuicm
NOT ACCEPTABLE ufdocdmqkldbaupqcqeourqjdkoiiw
NOT ACCEPTABLE goueaazjayzenzauykumqddcdmbqutjtxaiqjyaogeede
ACCEPTABLE uomasumqleoviopsmifcaisieauchjnuurmui
ACCEPTABLE naouutkeuuan
NOT ACCEPTABLE eismoxiiouykueiearixjinynobzimuuztuguytsi
ACCEPTABLE kueiseemtavvmbbegcicwiaefeenl
ACCEPTABLE necnedcwqjd
NOT ACCEPTABLE orauilvpnmqpaaaauhedcvnsujdjawezlooioqmbdkb
NOT ACCEPTABLE qdkemnanovuejomzatdoamxqveioieuoecoeuumgdocbe
ACCEPTABLE veobjdzakevpikuukkcljderoirihhfkralei
ACCEPTABLE guxexvsbdiiuiltuhofuphaldimuvzlduneiluaotclp
ACCEPTABLE oknyozpiimecajlokbsrkxicfnjeathoocs
ACCEPTABLE xeioangteullqoanbasfoxcoboieayiincducanvkrol
NOT ACCEPTABLE eoeeagmdkduigldaf
ACCEPTABLE yhjejbdjhullgeomdekedzaend
NOT ACCEPTABLE dzeikeauaescixyiqofjoeiqpeuedeej
NOT ACCEPTABLE eidlioallryeaaiiatavbdoualihoomb
ACCEPTABLE izymsubbqemga
ACCEPTABLE bboudwoeafsgheohzashexvhkafediacu
ACCEPTABLE beqqxeyuhekrewqpeaoteveugwluounkobtuuoedjupkudv
ACCEPTABLE akmdnzsuqriccdiuaejnkmekhjoyzodweicarkxoqti
ACCEPTABLE buksnihrnodlufakldpqajiaelapdqou
NOT ACCEPTABLE uuuckdzyvyxoenjicplmope
NOT ACCEPTABLE sdrnlncikzjprdcqnfofoueocumu
NOT ACCEPTABLE bdjpwnaodlojqeaodguosalnxaioaujpfuqeaunkgndimzo
ACCEPTABLE hdapergcowuahimrjufkuouquvnsxyqenejckvir
NOT ACCEPTABLE ectugvugvyneueuasol
ACCEPTABLE epcoibebejtjdiawnocxajchfwaxgulqimoebbjjcl
```

Problem #4
60 Points

4. Isabel

Program Name: Isabel.java Input File: isabel.dat

Test Input File:

```
Isabel 2003 9 18
Rocio 2004 12 25
Wally 2003 10 31
Klara 2002 11 1
Chaoxiang 2001 2 16
Stelios 2002 6 6
Linus 2001 4 21
Deshi 2002 3 7
Logan 2003 8 17
Polina 2002 5 15
Vicente 2001 7 9
Aaron 2000 1 23
```

Test Output To Screen

```
Aaron      : Sunday, January 23, 2000
Logan      : Sunday, August 17, 2003
Vicente    : Monday, July 9, 2001
Polina     : Wednesday, May 15, 2002
Deshi      : Thursday, March 7, 2002
Isabel     : Thursday, September 18, 2003
Stelios    : Thursday, June 6, 2002
Chaoxiang  : Friday, February 16, 2001
Klara      : Friday, November 1, 2002
Wally      : Friday, October 31, 2003
Linus      : Saturday, April 21, 2001
Rocio      : Saturday, December 25, 2004
```

Problem #5
60 Points

5. Klara

Program Name: Klara.java **Input File: klara.dat**

Test Input File:

```
4
.#..
..##
..#.
..##
11
###..#.#.##
###.#..#.#.
#..##.#.#.#
#.####.#.##
##.##.#.#.#
###.#..#...
.#.##..#.##
###..#..#..
#.####.#.#.
#.....###.#
#.#..##..##
7
.#.####
#..#...
#...#.#
.####..
#.#...#
##.####
#...##.
17
.##....#.........
#.#..#..##....##.
..##.##.####.....
#..#....##.###.#.
.#..#..#.........
#...#..##..###.#.
............##.#.
.#.....##...#...#
.#.########....#.
.#.#....##.#.....
#.#..###.#....#.#
#.#.###.#.##.###.
...###.....##...#
...#............#
.###.#...#...#...
...#.##.#..####.#
......#....#.#...
11
..........#
.#####.....
.....#.#.#.
..#........
#..#...#.#.
.##........
#.#...#...#
#....##....
........#..
....#.#..#.
......###..
12
.##...#...##
#########.##
.#.##..#..##
.#...#.#####
.#....##.##.
#.#.##..####
##...###.###
.##...#.##.#
#.#.##..####
#######.#.##
.##.#######.
..#.#.###.#.
13
##.##..#.#.#.
.#.#.....#.#.
......###....
...#....##.##
###..#....###
.#..##...#.##
###..#.##....
.#.#...#...#.
............#
..##..#.....#
##.....##..#.
....##.#...#.
#...#.....#..
18
#..#.....##.######
....##.#..###.....
##.##.....#.....##
##...#.##.#.#..##.
...#.###.##.#.##..
#######.###.####.#
###....#...####..#
...#...#.#.##.#...
#.#......###..##..
#.##########..#.#.
.###..##.#.###....
.#..#....#.##.#.##
#....##.#.###..###
##..##..##.####.##
#..##.#####.#.#.#.
#..#.#..##.#.#.##.
#####....#.#.#####
..#.###...#..#...#
```

(Klara, cont)
Test Output To Screen

```
.#..
..--
..-.
..--
=====
###..#.#.##
###.#..#.#.
#..##.#.#.#
#.####.#.##
##.##-#.#.#
###.#--#...
.#.##--#.##
###..#--#..
#.####-#.#.
#.....###.#
#.#..##..##
=====
.#.####
#..#...
#...-.#
.----..
#.-...#
##.####
#...##.
=====
.##....#.........
#.#..#..##....##.
..##.##.####.....
#..#....##.###.#.
.#..#..#.........
#...#..##..###.#.
............##.#.
.#.....--...#...#
.#.--------....#.
```

```
.#.-....--.#.....
#.#..###.-....#.#
#.#.###.#.##.###.
...###.....##...#
...#...........#
.###.#...#...#...
...#.##.#..####.#
......#....#.#...
=====
----------#
-#####-----
-----#-#-#-
--#--------
#--#---#-#-
.##--------
#-#---#---#
#----##----
--------#--
----#-#--#-
------###--
=====
.##...#...##
#########.##
.#.##..#..##
.#...#.#####
.#....##.##.
#.#.--..####
##...---.###
.##...-.##.#
#.#.##..####
#######.#.##
.##.#######.
..#.#.###.#.
=====
```

```
##-##--#-#.#.
-#-#-----#.#.
------###....
---#----##.##
###--#----###
.#--##---#-##
###--#-##----
-#-#---#---#-
------------#
--##--#-----#
##-----##--#.
----##-#---#.
#---#-----#..
=====
#..#.....##.######
....##.#..###.....
##.##.....#.....--
##...#.##.#.-..--.
...#.###.##.-.--..
#######.###.----.#
###....#...----..#
...#...#.-.--.-...
#.-......---..--..
#.----------..-.#.
.---..--.-.---....
.-..#....-.--.#.##
#....##.#.---..###
##..##..##.----.##
#..##.#####.-.-.#.
#..#.#..##.#.#.##.
#####....#.#.#####
..#.###...#..#...#
=====
```

Problem #6
60 Points

6. Linus

Program Name: Linus.java **Input File: linus.dat**

Test Input File:

```
16
2 4
12 14
6 8
9 27
25 4
7 7
5 7
2 10
26 13
26 14
0 5
1 5
381 549
9 18
18 9
18 10
```

Test Output To Screen

```
1/2
6/7
3/4
1/3
6 1/4
1
5/7
1/5
2
1 6/7
0
1/5
127/183
1/2
2
1 4/5
```

Problem #7
60 Points

7. Logan

Program Name: Logan.java **Input File: logan.dat**

Test Input File:

```
5
5
3
5 3 BLUE
3 2 RED
4 1 GREEN
6
5
1 5 BLUE
6 4 RED
4 3 GREEN
7 2 YELLOW
3 1 ORANGE
10
6
9 2 VIOLET
4 5 INDIGO
7 3 RED
6 7 PINK
2 1 BLACK
5 4 BROWN
100
20
1 1000 A
49 25 B
14 19 C
73 61 D
9 23 E
52 11 F
7 54 G
14 14 H
7 2 I
16 4 J
88 42 K
82 23 L
5 33 M
10 43 N
15 53 O
20 88 P
25 73 Q
30 83 R
35 93 S
40 103 T
1000
100
84 62 A
49 14 B
98 24 C
79 64 D
17 22 E
8 8 F
13 56 G
98 62 H
73 32 I
12 1 J
59 72 K
74 13 L
59 41 M
18 11 N
66 98 O
34 23 P
68 37 Q
24 1 R
82 85 S
58 2 T
54 60 U
37 51 V
2 23 W
78 47 X
18 50 Y
62 47 Z
33 6 AA
54 45 AB
21 71 AC
41 2 AD
6 72 AE
58 26 AF
52 2 AG
82 76 AH
12 2 AI
2 40 AJ
3 29 AK
19 66 AL
87 39 AM
1 45 AN
85 41 AO
64 90 AP
59 97 AQ
58 81 AR
34 68 AS
98 16 AT
65 43 AU
4 33 AV
86 94 AW
96 7 AX
37 49 AY
91 87 AZ
72 92 BA
98 45 BB
32 95 BC
68 66 BD
76 76 BE
98 60 BF
18 31 BG
20 72 BH
22 53 BI
95 95 BJ
6 8 BK
36 21 BL
21 72 BM
1 96 BN
77 47 BO
26 68 BP
24 39 BQ
45 18 BR
86 91 BS
90 23 BT
71 39 BU
2 56 BV
99 36 BW
76 77 BX
32 31 BY
62 29 BZ
78 11 CA
4 17 CB
97 9 CC
47 49 CD
31 92 CE
86 17 CF
19 85 CG
9 92 CH
67 88 CI
9 29 CJ
58 46 CK
100 99 CL
1 16 CM
18 37 CN
60 18 CO
70 97 CP
27 13 CQ
75 53 CR
48 96 CS
80 70 CT
57 5 CU
56 17 CV
```

(Logan, cont)
Test Output To Screen

```
5
4
$9
BLUE
GREEN
6
6
$14
GREEN
YELLOW
ORANGE
10
10
$23
VIOLET
RED
BLACK
BROWN
100
96
$259
F
H
I
J
K
L
1000
1000
$2644
B
C
H
I
J
L
M
N
P
Q
R
T
X
Z
AA
AD
AF
AG
AI
AM
AO
AT
AU
AX
BB
BF
BL
BO
BR
BT
BU
BW
BZ
CA
CC
CF
CO
CQ
CR
CU
CV
```

Problem #8
60 Points

8. Polina

Program Name: Polina.java Input File: polina.dat

Test Input File:

```
INVITATIONAL 914
DISTRICT 425 562
UILCONTEST 691 472 456
ELEPHANT 756 451
GIRAFFE 451 284 962 942
CHEETAH 962 756
RHINOCEROS 693 454 314 285
CHIMPANZEE 325 451 314 586 618 442
COMPUTERS 325
PROGRAMMING 962 451 618
ZEBRA 451 314 586 618 442
PACKETSWEEP 756 451 284 693 942 876 693 454 314 285
```

Test Output To Screen

```
INVITATIONAL 3AINVITATILNAOAA2
DISTRICT 21ADRSTIACTAI92
UILCONTEST 112OSLICANTEUTAA388
ELEPHANT 1PAEL2EHANTAA43
GIRAFFE 3311AFFRAG3EACIA2E
CHEETAH 23ACAEEHTHAA24
RHINOCEROS 1112ANOHROCERIS6A5AAD
CHIMPANZEE 12111IACH2MPENEAZ3A5AAAAA
COMPUTERS 1ACOMPRTEUSAA5
PROGRAMMING 2ROAPR3G1NMMIAGAA23A
ZEBRA 1211EAARB23AAZAAAA
PACKETSWEEP 1112311A3PEA22KCSTWEEPAAC3456C5EAD
```

Problem #9
60 Points

9. Rocio

Program Name: Rocio.java **Input File: rocio.dat**

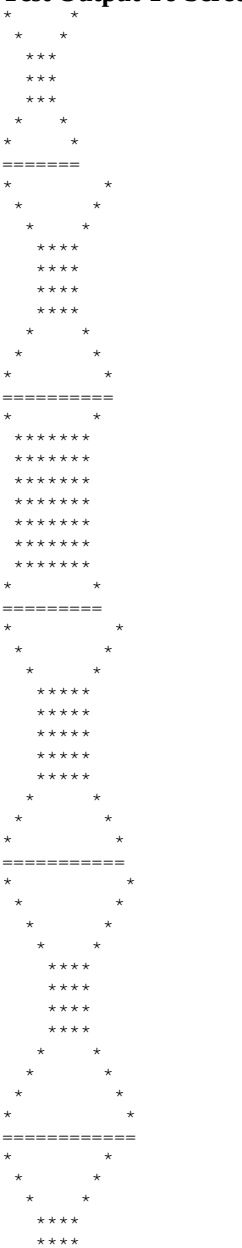
Test Input File:

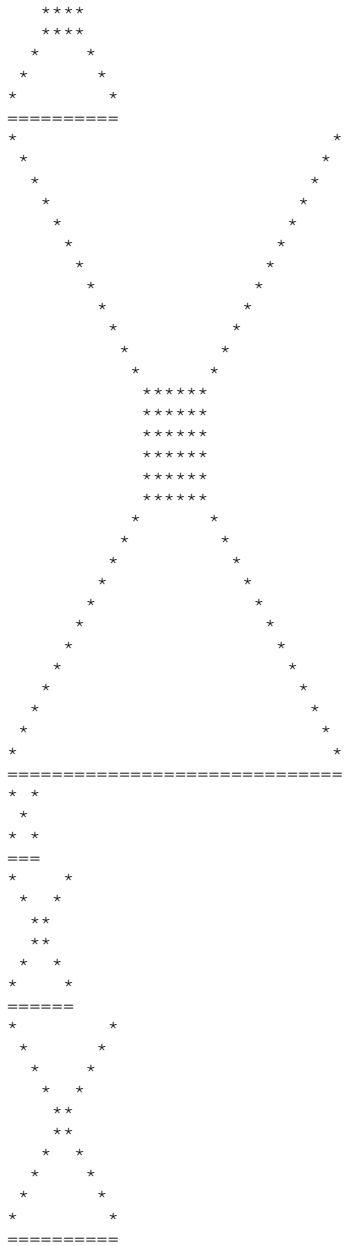
```
7 2
10 3
9 1
11 3
```

```
12 4
10 3
30 12
3 1
```

```
6 2
10 4
```

Test Output To Screen





Problem #10
60 Points

10. Stelios

Program Name: Stelios.java **Input File: stelios.dat**

Test Input File:

```
3 AB BC CA
4 AB BC CD BD
6 AB AC CF BF BD BE ED
5 AB BD DA DC DE
7 AB BC CD DE EF FG BD CF GA
8 HG GF FE ED DC CB BA
9 AB BC CD EF GH EI FE
12 AB BC CD EF GH EI FE AK KJ JI BJ KB BD GK LA
25 AB BC CD EF GH EI FE AK KJ JI BJ KB BD GK LA AM AN BO CP DQ ER FS GT HU IV JW KX LY
```

Test Output To Screen

```
0 1 1
1 0 1
1 1 0
-----
0 1 2 2
1 0 1 1
2 1 0 1
2 1 1 0
-------
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 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 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
---------------
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 1 0 0 0 2
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
-----------------
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 3
1 1 2 2 3 4 1 2 2 1 0 2
1 2 3 3 5 6 3 4 4 3 2 0
-----------------------
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
2 1 2 2 2 3 2 3 1 0 1 3 3 3 2 3 3 3 4 3 4 2 1 2 4
1 1 2 2 3 4 1 2 2 1 0 2 2 2 2 3 3 4 5 2 3 3 2 1 3
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 5
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
5 4 5 5 1 2 5 6 2 3 4 6 6 6 5 6 6 0 3 6 7 3 4 5 7
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
-------------------------------------------------
```

Problem #11
60 Points

11. Vicente

Program Name: Vicente.java **Input File: vicente.dat**

Test Input File:

```
10110101 EVEN
10110101 ODD
1000000001110001 ODD
10110100 EVEN
10110100 ODD
1101001011000111 EVEN
1111111111111110 ODD
10101010011000101010101001100010 ODD
11111111111111111111111111111110 EVEN
```

Test Output To Screen

```
B5 16B
B5 16A
8071 100E2
B4 168
B4 169
D2C7 1A58F
FFFE 1FFFC
AA62AA62 154C554C5
FFFFFFFE 1FFFFFFFD
```

Problem #12
60 Points

12. Wally

Program Name: Wally.java **Input File: wally.dat**

Test Input File:

```
abstract
assert
boolean
break
byte
case
catch
char
class
continue
default
do
double
else
enum
extends
false
final
finally
float
for
if
implements
import
instanceof
int
interface
long
native
new
null
package
private
protected
public
return
short
static
strictfp
super
switch
synchronized
this
throw
throws
transient
true
try
void
volatile
while
999
x
num
while
final
count
3com
_time
$amount
this
break
7seven
8
Control
a1b2c3
C3PO
TEMP
a123456
elapsed time
true
false
null
Q13
abc%def
123456789
valid
valid_identifier
value$
double
Int
#hashtag
```

Test Output To Screen

```
$amount
C3PO
Control
Int
Q13
TEMP
_time
a123456
a1b2c3
count
num
valid
valid_identifier
value$
x
```