Scrabble Puzzle Challenge

By John Barr, *Ithaca College*

Letter	Value	Number available
A	1	5
B	3	1
C	3	1
D	2	2
E	1	6
F	4	1
G	2	2
H	4	1
I	1	5
J	8	1
K	5	1
L	1	2
M	3	1
N	1	3
O	1	4
P	3	1
Q	10	1
R	1	3
S	1	2
T	1	3
U	1	2
V	4	1
W	4	1
X	8	1
Y	4	1
Z	10	1
+	1	3
/	1	1
-	1	2

Hex Values	
Double Letter	
Triple Letter	
Double Word	
Triple Word	

How many words can you create on the board? The chart on the left provides the number of points per letter and the number of letters available. Use these letters to create words. Any consecutive letters in any direction must form the name of a programming language (see Wikipedia for a list of allowable languages: https://en.wikipedia.org/wiki/List_of_programming_languages). There are two different games you can play: use as many of the available letters as possible or maximize total points. Some hexagons increase your score (see second table). You may use partial hexagons.

Solution to Binairo logic puzzle from the December issue of *ACM INROADS*

1	0	1	1	0	1	0	0	1	0	0	1
0	1	0	0	1	1	0	1	1	0	0	1
0	0	1	0	1	0	1	1	0	1	1	0
1	1	0	1	0	0	1	0	0	1	1	0
0	0	1	0	1	1	0	1	1	0	0	1
1	0	1	1	0	1	0	1	0	1	0	0
1	1	0	0	1	0	1	0	0	1	1	0
0	0	1	1	0	0	1	0	1	0	1	1
1	1	0	1	0	1	0	1	0	1	0	0
1	0	1	0	1	0	1	0	0	1	0	1
0	1	0	1	0	0	1	0	1	0	1	1
0	1	0	0	1	1	0	1	1	0	1	0