3 questions 90 minutes. Hackerrank. You can’t minimize your browser window.

1. An array will be given. The element at any index can be either 1 or 2 or 3 or 4. You have to change the array such that no consecutive number can be same. You have to find minimum number of change required to satisfy this property.

Example : array 1,1,1,1 ,2 ,3, 4 minimum number of changes can be 2.

Array 1 2 3 4 5. Minimum number of changes required 0.

Solution:Two pointer

2) You are playing some songs in play station. After each song ends you have to increase or decrease volume based on an array given. Initial value l (starting volume ) and maximum value (h)(volume) that can be reach will be given. What can be the maximum volume of last song? At any point of time volume cant’ be less than 0 and greater than maximum value. If you can’t reach return -1;

Example:

(1)Array 5,3,7 size 3

l=5 h=10

After first song volume =0(decrease 5(l)-a[0])

After second song volume=3(0+a[1])

After third song volume=10(3+a[2]) this can be maximum

(2)Array 1,1,1

l=0 h=5

Answer =3;

Solution:BFS

(3)If a string has 3 consecutive vowel or 5 consecutive consonants its bad else its good.

All are small alphabet. It can have ? any number of time. You can replace that with any character. After replacing it with some character if it shows property for both then it is mixed.

Exampl:

aabb good

aaabcdeeeee bad

aa?bbbb bad ,if u replace ? with any vowel it will be bad if u replace ? with any consonants it will be bad. So it is bad.

aa?bb mixed, if u replace ? with any vowel it will be bad if u replace ? with any consonants it will be good. So it is mixed.

All the best puplo. :-) Try to solve all of them.