

Sliding windows

Bit Flip

(A) Given an array of 0s and 1s, find max # of cont subseq of 0s if allowed m flips

(eg) 001001

allowed 2
flips (= # of
1 ones)
in window

0010011

max = 1 flips = 0

0010011

max = 2 flips = 0

0010011

max = 3 flips = 1

0010011

max = 4 flips = 1

0010011

max = 5 flips = 1

0010011

max = 6 flips = 2

0010011

max = invalid flips = 3 X

0010011

max = invalid flips = 3 X

0010011

max = invalid flips = 3 X

0010011

max = 4 flips = 2

Terminate as can't move right pointer ahead anymore.

over all max = 6 (after 2 flips)
0 0 X 0 0 X 1
0 0 0 0 0 1