Sorbing: Sort Colours

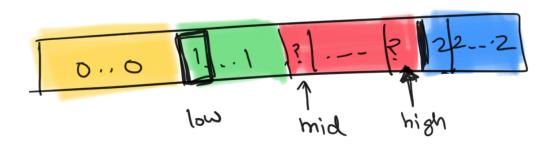
Colours 0,1,2

Given array 16 coloured o yests, Sork them in place so that Objects of same colour are adjacent

are in soder (red, while I blue)

 $[[2,0,2,1,1,0]] \rightarrow [[0,0,1,1,2,2]]$

One pass solution with constant space?



[0: lou] -> 0

[low: mid] -> 1

[mid: hight] > ?? unknown

Chigh+1:3-> 2

lar bin mid = 0 : swap and low val

Increment bu increment mid

mid = 1 : In coement mid

mid = 2 :

susp mid vel and high

decrement high

repeal bill [mid; high +1] is emply mid > high. (le)

Start with

low = 0

mid = 0

high = len(array) = n-1

1

so initially full array is unknown