Q Given a string which contains hower case alphabets. Retron the no. of pairs (i, j) such that

$$\frac{q}{1}$$
  $\frac{1}{2}$   $\frac{3}{4}$   $\frac{4}{8}$   $\frac{5}{1}$   $\frac{5}$ 

$$(0,5) = 3$$

Given an array return the length of the Q Ola Smallest subarray that contains both man 1 min of the array.

1, 2, 3, 1, 3, 4, 6, 7, 6, 3 Shore Clat

Man = 6 Min = 1 ans

Quize 2, 6, 4, 5, 1, 5, 2, 6, 4, 1 Man = 6 [8-10] =3 Mén

Quiz 
$$1, 6, 4, 2, 7, 7, 5, 1, 3, 1, 1, 5$$

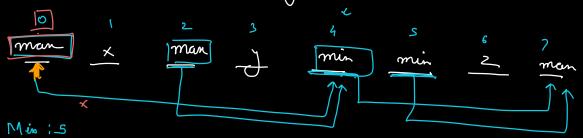
Men = 7

Min = 1

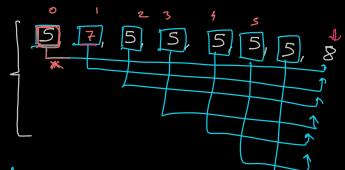
Discreption

## Observation

- The ans subarray will contain exactly 1 min & 1 man
- 3) The man & min will columny be in the boundy of the cans subjernay



Man : 8



T(:0(N2)

8,

// find man & min => O(N)

$$\{G(a(i) = = min)\}$$
 $\{G(a(j) = = man)\}$ 
 $\{G(a(j) = = man)\}$ 
 $\{G(a(j) = = min)\}$ 
 $\{G(a(j) = = min)\}$ 

8, 8, 8, 8, 8 Man: 8 Min : 8 man Last Man = 0 2 hast Min = 45 length = 35 6 man ma mi min man hart Min => x 3 6 8 9 8, 5, 5, 5 hart Man on 4 7 hast Mi Minhereth = (2) Last Man le TC; O(N) | SC: O(1) 8, 8 Last Mar 0
min min mu Length = 2

## Direct i

Q Given an array. Given Q queris lach representing a subarray (L, R) & O/e L, R, O => Return Sum of all odel inelessed elements from L to R L, R, e => Return sum of all even indened elements from L to R. 2, 3, 1, -1, 0, 8, 5, 4 3, 6, Odd => 7 1, 5, Even => 1 A; 2, 3, 1, -1, 0, 8, 5, 4 PS=: 2, 2, 3, 3, 3, 3, 8, 8 PSo: 0, 3, 3, 2, 2, 10, 10, 19

A Given an array. Count the no. of special sindices.

Special Inden: If this inden (& val) is removed

then the Sum of odel indenent
elements should be equal to results

Sum of even indened elements.

3, 2, 7, 6, -2  $S_{e} = 9$   $S_{o} = 8$   $S_{o} = 8$ 

Quiz 4 1 5 3 7 10 4 6 5 7 10

Quiz  $\frac{2}{3}$   $\frac{3}{4}$   $\frac{4}{5}$   $\frac{5}{6}$   $\frac{7}{7}$   $\frac{8}{8}$   $\frac{3}{5}$   $\frac{4}{5}$   $\frac{5}{6}$   $\frac{7}{7}$   $\frac{8}{8}$   $\frac{3}{8}$   $\frac{3}{7}$   $\frac{3}{7}$   $\frac{4}{7}$   $\frac{5}{7}$   $\frac{6}{7}$   $\frac{7}{7}$   $\frac{8}{8}$   $\frac{3}{8}$   $\frac{3}{7}$   $\frac{3}{7}$ 

after removing element at inden i

Se = Se[0, (i-1)] + So[i+1, N-1]

So = So[0, (i-1)] + Se[i+1, N-1]

11 Create PSc

11 Create PSo

for (i=0; i<N; i++) {

11 Se after removal et i »

11 So after removal of i

if (Se == S.)

Court + +1;

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