Rotate Right

n=7 arr: [1 2 3 4 5 6 7] Rotate right by I. Arr: [6 7 1 2 3 4 5 6] Arr: [6 7 1 2 3 4 5]

Two Pointer.

L) Reverse the array

[7 6 5 4 3 2 1]

= 7 7 7 7 7 4 5 6 7

T71234565 [1234567] L) Reverse array [7654321] Rofate 5y2. [6712345] Example. [1234567] Reverse array [7654321] Reverse jirst 3 elements [567 1234]

De can reverse using two pointer. 1. left 2. right To reverse entire array left:0, rigat = n-1 Then revove first K elements left=0, right: K-1, revouse, elements affer Ceft: K, ngat: n-1 K=2,n=7 K=K%n. -2%7-2. K - 9 = 9%7=2.

Brute Force Approach.

arr: [1 2 3 4 5 6 7]

temp[] 0 1 2 3 4 5 6 temp[] 1 2 3 4 5 6 temp[] 1 3 4 56+2 = 8=1 5+2-7=0 temp [i+k%n]= arr(i] foo(int i: 0; (<n; (++) } temp [i+k%n]-arr[i]; for [int iso; i(n; i+t) f orr[i]=temp[i];

## Zeroes and ones

n-6 QYY: [0 | 1 10] Ceff=0; riget:n-1; increment left until arrelight is not be decrement right until arrelight is not o to 11101 Tight Lolloj left right 1 left right

COOIIII Example2. [o [o]o] (eft right [01010]

left right [0001]] LOOOLIJ left right

Code.

int left=0, right=n-1;

While (left < right) ? While (arr(left] = = 0 so left < right) leff+; While (arr (right] == 182 (eff < right) 8 ght - - ) int temb = arrileft] Qxx[eff] - ayr[nght], arr(right) - femp, leff++; right - -; I Time Complexity >0(n/2) Brute Force Approach. int count zero: 0 for (int i=0; (<n;(++)} () (arr (i] = -0) Countreroff;

for (int i=0, (< countzoro, i+){ QYY[1]=0, for (int (:countzero, (<n, (+t) { axx(i]=1; Time Complexity > 0(n) Sorting Approach (Time Complexity-O(nlogh)

Do not use in case of zero one array