

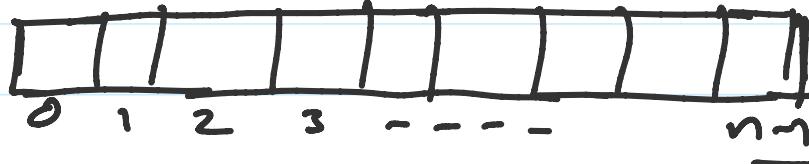
21/09/2022

21 September 2022 19:04

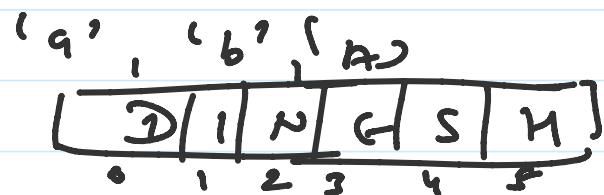
(feel free to ask any
doubt you have)

Array / sub-array / subset / subsequence
/ string

Array :



String : Array of char



> How to iterate an array ?

for(let i=0 ; i<n : i++) {

// g[i]

{

{

q. for Each (\underline{x}) $\Rightarrow \underline{_}$ { }2) add a element in array at ith position.

$\underline{1 \ 2 \ 3 \ 4}$

$a = [1 | 5 | 10 | 3 | 18 | 9 | 20 | 2]$

$i = 4$ $x = 12$

$\underline{1 \ 5 \ 10 \ 12 \ 3 \ 18 \ 9 \ 20 \ 2}$

$\boxed{19}$

function solve(a , pos , elem) {

S

$\underline{5 \ 9 \ 9 \ 3 \ 19 \ 2 \ 1 \ 0}$

$\underline{l \ r \ 3 \ i \ t}$

$a = [5 | 9 | 9 | 3 | 19 | 2 | 1 | 0]$

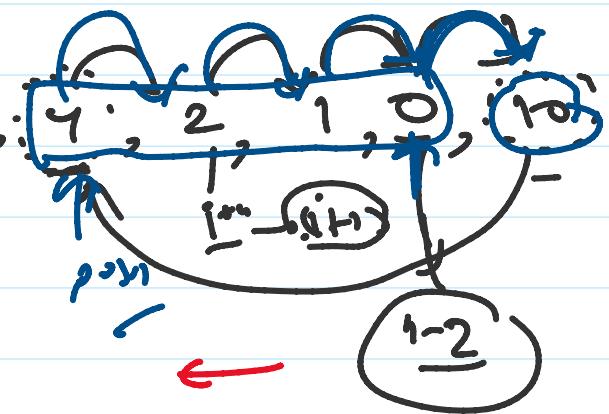
pos = 5 , elem = 10

$\underline{5 \ 8 \ 9 \ 3 \ 10 \ 19 \ 2 \ 1 \ 0}$

pos \leftarrow 7 i \leftarrow 7

LSI 8 19.13.10 1-11

3, 8, 9, 3, :



tmp = q[n-1];

for (let i = n-2 : i > pos-1 : i-2) {

q[i+1] = q[pos];

{

q[pos] = q~~0~~ + tmp;

pos = s

3, 8, 9, 5, 4, 3, 2, 1, 10

i = (n-2) → n-1

q-1 (n-3) → n-2
i-2 i
|

i = n-2

n-3

i

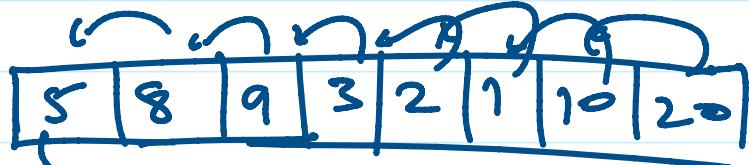
i-1 (pos-1) → (pos 9)

1 2 3 4 5 6 7 8 9 10

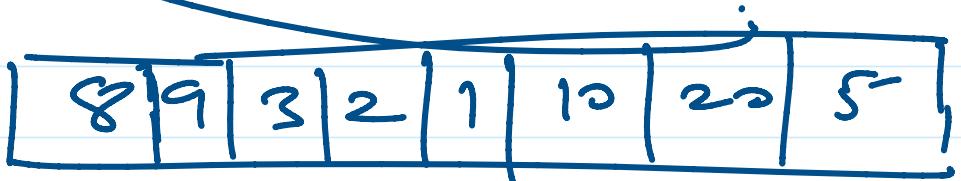
5, 7, 9, 13, 4, 2, 1, 0, 7, 1
 3 4 2 1 0

problem-3

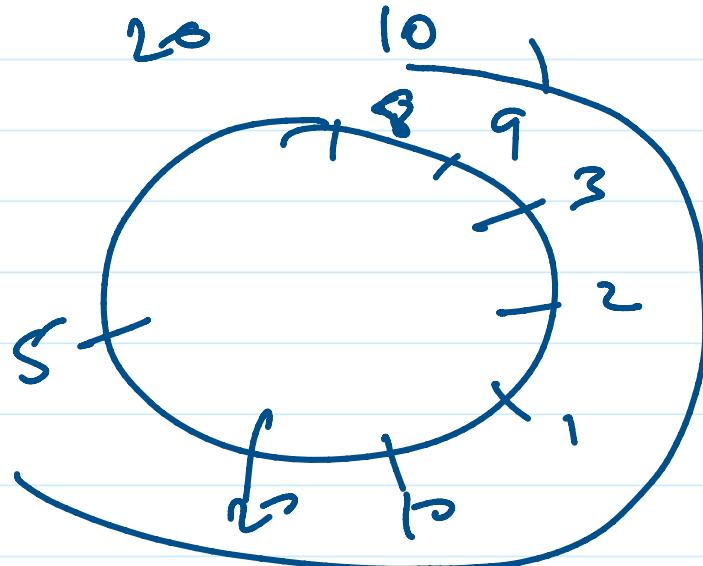
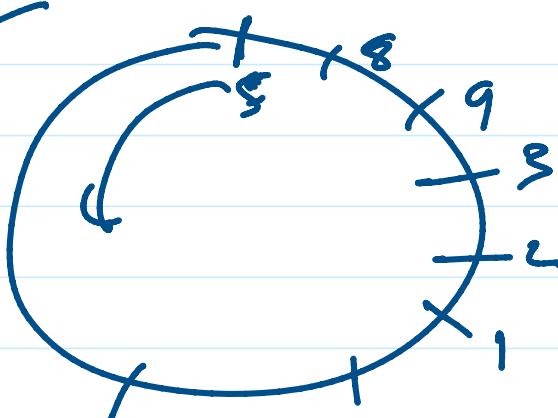
q:



Ans



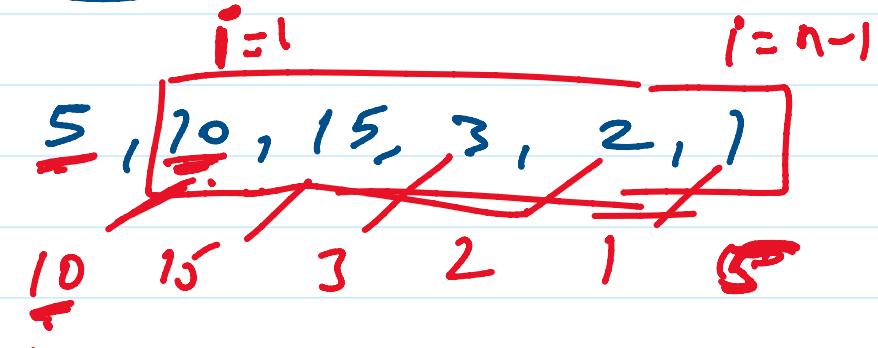
A clockwise



function Solve(a,) {

{

7:50



$$a[i-1] = a[p]$$

$$\underline{\text{tmp} = a[i-1]}$$

for (let $i=p$; $i < n$; $i++$)

$$a[i-1] = a[p]$$

{

$$a[\underline{n-1}] = \underline{a[p]}$$

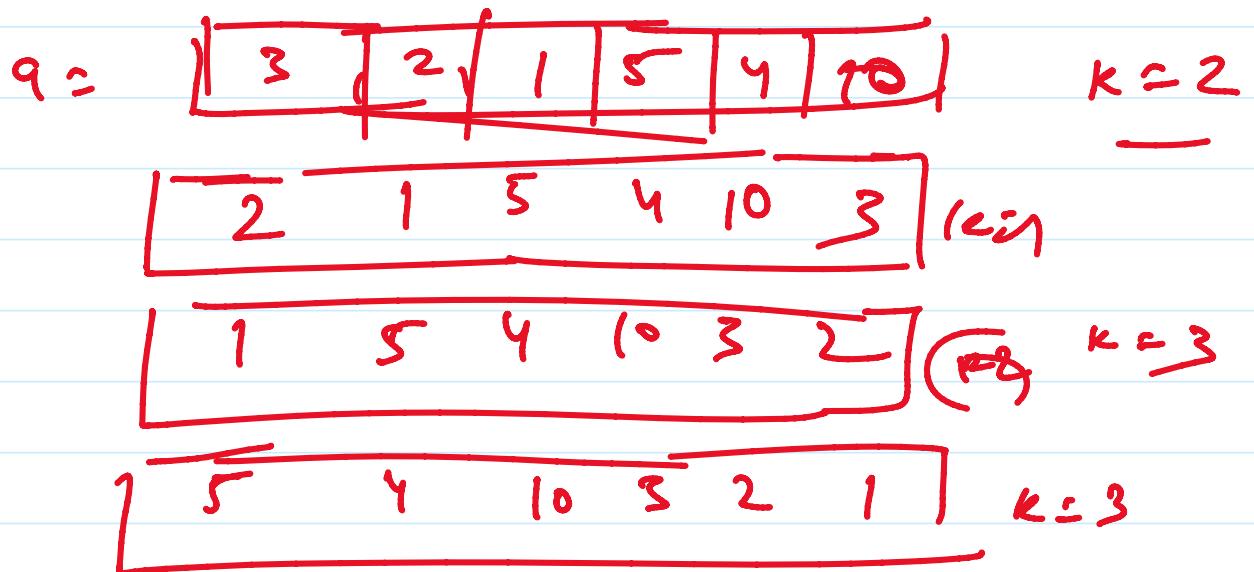
$$a[\underline{n-1}] = \underline{\text{tmp}}$$

→

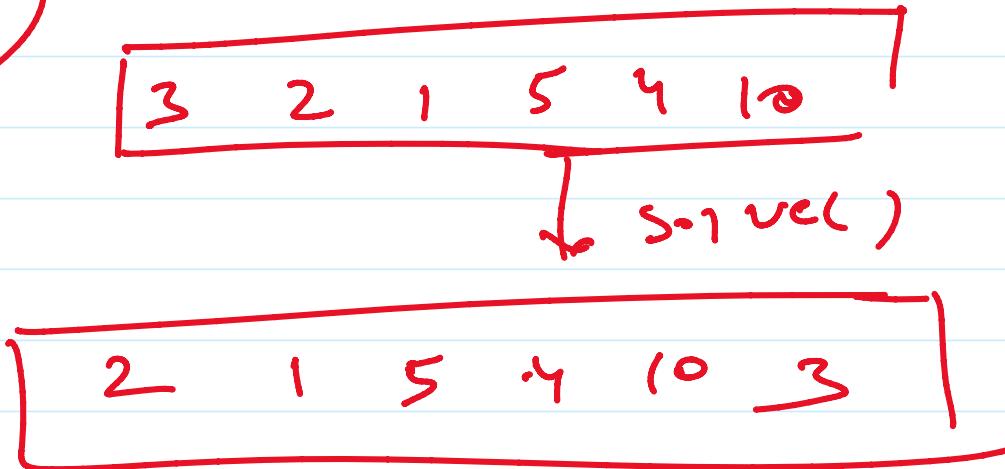
problem-3

rotate an array in anti-clockwise
K times.

k times.



3 min



function solve(q) {

let temp = $q[0]$:

for (let $i = 1$: ($< n$; $++$)) {
 $q[i-1] = q[i]$.

{

$q[n-1] = \text{tmp};$

{

function solve2(q, k){

while($R > 0$){

solve(q)
 $k--$

{

{