# arc5 =  $\{12-145\}$ a 20 [0] + a 20 [4] = 6 Time Complexity of accessing. \$\ 0(1) # Point all clements of an Assay. · [] sep fai 100 (int i=0; i<n; i++) d point (ass (iJ); Tc: O(n) On Given N array elements, count number of elements having atleast I element greators than itself. Eg arr [7] = {-1 2 4 6 5 6 23 Eg arr [6] = 21914 22463 Observation 1) Max value would not be compad. 2) Find max value 3) Find count of max value. A) are 7 Size of Adday - count of max value. Pseudo Code Lowest Integer value 1) Find max value int max-vol = aso Co]; / INTEGER.MIN; loo (int i=0; i\_n; i++) } ( lov-ram < [i] cra) max\_vol = aw(i) Tc: O(r)SC: O(i) 2) Find count of max value clements 1NA c=0 (++i; n>i; 0=1 fni) 80 if (ass(i] == max. value) Tc:0(n) Sc: 0(1) Tc:0(n) 3) Return (n-c); SC: 0(1)

On Criven N array elements, print true if there exists a pair of index iti, where arr [i] + arr [i] = R.

Note: i) Array is not sorted

3) return true / Jalse H) R is given.

Eg 1: arol) = 23 4 K=8

= 4700

Eg 2: aroli = { 2 4 3 -23

= alse.

$$\int oo \left(inti=o ; i < n ; i+t\right) Z$$

$$\int oo \left(intj=o ; j < n ; j+t\right) Z$$

$$\iint \left(\left(i \mid = j\right) Z A \left(a v \left(i7 + a o v \left(i\right)\right) = = P\right)\right)$$

$$ed von tove$$

$$\frac{1}{3}$$
  $\frac{1}{5}$   $\frac{1}{5}$   $\frac{1}{5}$   $\frac{1}{5}$ 

$$\int oo \left(in+i=o ; i < n ; i++\right) \mathcal{L}$$

$$\int oo \left(in+j=i+i ; j < n ; j++\right) \mathcal{L}$$

$$i \int \left(ao \left(i7 + aoo \left(j\right) = = 12\right)\right)$$

$$ood oon fore$$

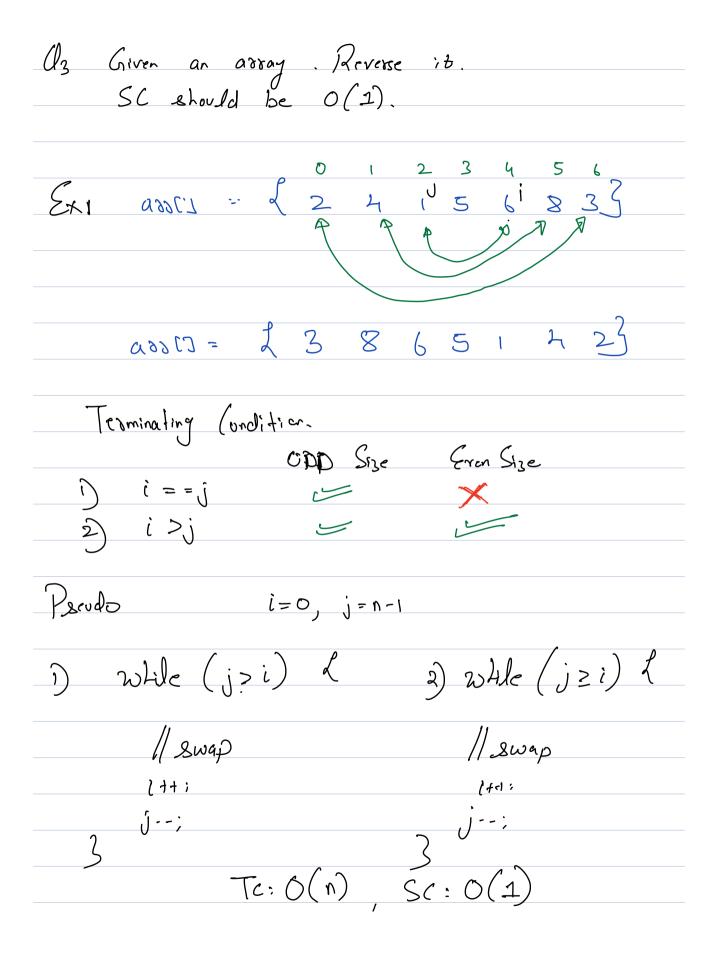
<u>z</u> \_ ]

 $Tc: O(n^2)$ 

ì j		total (deaction	
ð	[1, n-i]	n - 1	
1	[2, n-i]	N-2	
١,		N-3	
(			
Ì			
n-2	[1-1, 1-1]	1	
n - 1	X	0	

$$0+1+2+3+4$$
 . . .  $(n-1)$ 

$$\frac{2}{U(u+1)} = (u-1)(u) + O(u_5)$$



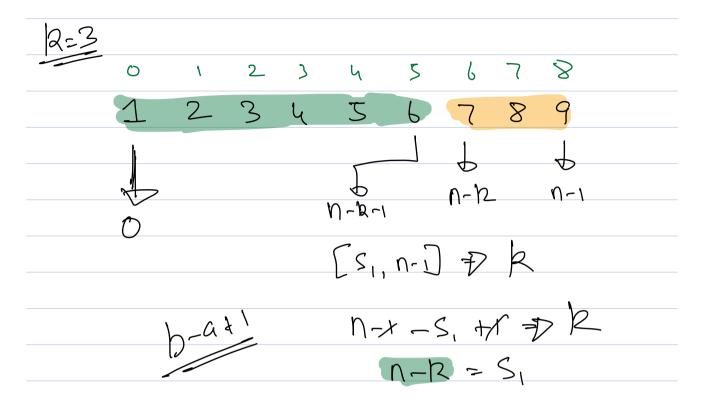


Or Reverse the array from start to end.

—P Start and end indices are given -7 Start Lend. Eg: arol] = -2 4 6 7 8 15 Start = 2 -2 4 1 8 7 65 end = 5void reverse (int stant, intend, and and 1) } ind i = stant. int j = end; while (j>i) & Tc: O(n) // Swap S(:0(1) j--;

Os Given a array elements, rotate the array from last to first & times. SC should be 0(1).

- h, n 0 1 2 3 4 5 6 7-3 Eg 1 a88() = 5 2 3 -1 6 12 R=1 2523-161 R=2 12523-16 R=3 612523-1 0 Deverse (1257 Helemente (0, n-1-12) 3 2 5 6 12 devesse les 3 element -1325216 Jevesse thre entire assay 6125237



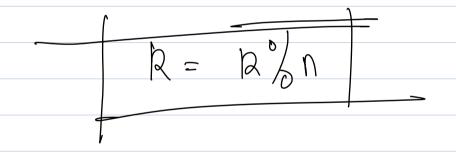
CASE2

k≥n

n=5

ass ()= La, a2, a3, a4, as}

R=0,5,10,15	a, az az au as
	as a, o2 a3 a4
k=2, 7, 12/17	ay 95 a, a2 a3
D=3,8,13,18	az 94 Uz a. az
R=4,9,14,19	az az au az a,
Q=3	a, 92 93 94 95



Dynamic Addays # Where the 213c of addry is not.

lang	C++	JAVA	Python	Js	C#
Phoens Phoens	Vectoo	Addaylisa	J15+	Adday	Adday Dest

C & Change your language

P list (in-1> l;

1. inscrit (10);

J. Size ()