Welcome (i) Arrays.
Agenda: 4-5 problems

word 0 1 2 3 4 5

and 0 1 2 3 4 5 6

Func" to print all elements of on erroug

HW

Time complemity to access i'm element in an acrony

0(1)

avr [1]

Of librer N away elements, court no. of elements having atleast one element greater than itself. eg: arr[7]: 2-3 2 6 8 4 8 5 3 am [10] { 2 5 1 4 8 0 8 1 3 8 9 aur (5): \$5,5,5,53 obs: for manimum dement, we don't have any element which can be greater. Find court of how many times man. element is expressing. ans = total element - count man int counthreater (aver, N) { Reudocode man = avico]; Do it in one loop for (i=2; i<N; i++) iflavorli] > man) {

Beudo code it counthreaten (ann, N) { man = avu(0]; for(i=1; i< N; i++) if(avu(i) > man) man = avu(i); man =

Q biven an averay of size N. theck if there exists a pain (i, j) such that ave[i] + ave[j] == Kand i!=j 3 6 : { 3 -2 1 4 arr True K=10 K=5 False 4 2 3 7 True. App 1 brute force -> Week all pairs. If any pair (i, j) is having sum == K, return time. Yserdo. 2 boolean checklairs (aux, N,K) forti=0; i<N; i++) 2,1 1,2 forl j=0; j<N; j++) if([:]){ · if (avorti] + avortij] == K) { return true; 3 Tetum false; S.C = O()

boolean checklains Law, N, K)

forl j=it1; j<N; j++)

{ forl j=it1; j<N; j++)

{ the aurling == K) {

return true;

return false

thereof: N*(N-1)

}

Chen an away of size N. Reverse entire array [S:L \rightarrow O[1])

Note: array itself should be changed.

anx: g - 1 g - 2 g - 3 g -

arr: 2-163289103

Pseudo code

Noid reverse (aun, N) i = 0, j = N-1while L i < j) i = arr Cil; aur Cil = arr Cjl an Cjl = temp i + = 1 j - = 1

Deliver on away of size N and Si, eingle N and Si, eingle Revenue the away from Si to eing Si Si Si eing are 4-3 4 2 8 7 9 6 2 10 3 6=7 4 2 8 7 9 10 3

11.W

O Revene entire array revense (arr, O, N-1) 2 Kevers first K dements revene (arr, 0, K-1) (3) Revers remaining dements reverse (arr, K, N-1) TC -> O(N) S-L > 0(1) eg: arr { 3 2 7 5 3 K = 6 $\rightarrow 0 \rightarrow 4 \rightarrow 8 \rightarrow 12$ → 1 → 5 → 9 → 13 7 K=3 9 2 7 5 3 →2 →6 → 10 → 14 K=4 -9 3 2 7 5 K=5 + 5 3

7 5

K=6 +

obs: arr is repeating after Niterahrbus : take modulo of