Meth We Kopp Arrays Q5 Union of 2 arrays.

Veturn size of 2 arrays ofter union. and if insert first array elements, second array elements if in return S. Size() fo Q6] Gelically rotate array by one.

12 3 4 5 -> 5 1 2 3 OR can use deque. t = arr [n - 1] fox (int i=n-1; i>=0; i--){ arrfi] = am [i-1]: Orr Co] = temp: Q7 Maximum sum of contiguous sunarray [Kadanés Algo] Method I -> 3 nosted for loops for(i=0; i<0; i++){ for(j=v;j=n;j+r){. TIME: O(n3) fox ( K= i , K <= j , K+7) } S=S+a[k]; if (symax) { Method I -> Store sum in away till that element 75 -13 5 10 -2 5 we do pre[]→ 0 7 12 -1 4 14 12 17. fox(i=0; i<n; i++){ fox(j=ijj<n;j++){ TIME: O(n²) s= Pre[j] - pre[i].-1]; if (s>ma)

Page No. Method III -> Kadanes Algorithm ,-> Similarly Max Product We execute int cux sum & max sum. Suburray ver adding elements in cussum and in each iteration compare with maxsum if it is more update marsum if cursum < 0 then make it 0 int max = INTMIN. int cursum=0; [IME: O(n) fox (i=0, icn, i+t) {. SPACE: O(1) Cuxum+=a[i] if (cusum>max) if ( a cusum < 0) {. Cusum=0 90 18 Minimize the height [Minimize Maximum Sudifference between heights ] k=2, N=4. 5 8 10 → 3 3 68: diff bet smallest & largest K=3, N=5-10 0 00 100 1410 Restar ingo 3 9 12 16 20 -> 6 12 19 13 217 130 Ale D 17-6 = 11 MA Sost array-Maxi = o [n-1]-k Mini = a [o]Tk. ans = acn-(J-aco), and = and ale fox((=0; i<n; i+1){. ma = max (maxi, a [i]+k); mi = min(mini, a[i+1]-k). if (mico) { continui} 2 ars = min (ars, ma-mi);

, , ,	Page No.
	Date
Q9]	Microsoft and the second and the sec
	The state of the s
	1 4 3 2 6 7 2 Jumps
	Iterate through array.
	find max of maximum reach till where you can be
	ox i + aucij.
	set a jet was to be hove reached at our
	Jump point. and count ++ & update curr=manoa
	it at end curs < n-1; we could not reach
	end of array ' values -1
	$\frac{1}{1}$
	max reach = max (max reach, i + arci];
	if (i = = cuss) {
	count ++
	2 mar & each.
	)
	26
11	(curren -1) return -1;
7	turn court;
01 0	
- 11	ind duplicate Element in O(n) Time 4 O(1) Space.
TI	traj contains n+1 integers in range [1,n]
C	are is only expeated no.
20	le w/o modifying array & use O(1) space-
	3 4 2 2.
N.A	Ars > 2.
1107	hod 0 > 2 nested for coops Time: 0(n2)
14ot	had (2) + Hash Map -> Time O(n) SPace -> O(n)
Note	rod B > Treat array like linked list.
11	









