Galanced Roenthelis, 7/p: 29([()]) I/P: ([)] O/P: Valid. 0/1: - Not valid I if in ques this is valid too, then code:boolean matching (cher a, cher b) just do 2 + e & at lest x = =0 1 return ((a=='('dd b==')')11 (azz [dd b. L ']') 11 nor -> (, E, E オーー つ)、コ,子 (a=2'&'dd b=='3')); booleen is Balenced (string sto) of Deque (cheracter) & = new Array Deque <> (); for (Int 120; 92 str. length (); 1++) i char a z str. charAt(i); if (x = . . (. | | x = = , E, | | x = = , E,) { 8. push(a); 3 else { 36(2. To Empty () = = false) & return felse; 3 else of (mekhing (s. peek(),x) = felse) { setum felse; } q else for pop ():3 3 Frehem (8. To Empty () = = true);

2 or more Steeks in an array. Maine - divide the array into 2 parts from middle. Short Stock 2-Steek 1 from Ucondition for overflow (top1 < top2-1) Stock Span Booblem. > Span on a day -> (Including that day 21) - (No: of days less value her it on left side that are consent [30,20,25,28,27,29] 1 1 2 3 1 2 Neure Solution -> O(n2)

-> Traversing left side of every array element. Void printspan (int arrijint n)

Void printspan (int arr[], int n)

{ tor (int ?20; ? (n; ? et)

int span = 1

for (int gei-1; j>0 & arr[j] < arr[i]; ?--)

& span + e; g

print (span + "");

}

@ Efficient solution point span (int arres, int n) { Stack S; 8. push (0); point (1); for (int "=1; "cn; "++) 2 while (s. is Empty () == false; & d arr [s. top ()] < arr [i]) kem owner all { s.pop(); smiller item. Span z & . ? & Empty () ? 9+1: 9-18. top (); print (span); Sopush (1); Span of tem = (Index of air (Index of prev)
greater elem

benous Greeter Element. (Variation of Stock span).

 $T/\rho \rightarrow [15, 10, 18, 12, 4, 6, 2, 8]$ $0/\rho \rightarrow -1 15 -1 18 12 12 6 12$

I/P→ {8,10,12-3 0/p→ -1-1-1

P.7.0 ->

Maire fol - De two loops, traverse from right for each element. Efficient Sol -> point prer Greeter (int corly, intn) & Stack ("not > &; S. push (cor [0]); for (?nf ?20; i(n; ?e+) L' while (& isempty = 2 felse dd s. top() < arr [i]) 8. pop(); int pg = (d.empty ())? -1: 3.top(); cont (cpg (e" "; 3 3 8. push (200297);