Stack Introduction and Identifications

- Ouostions and Enterconnected to each otener.
 - · Stack is somportant from Enterview Point of weign.
- to identify which dater structure du ci decree
- D Nearest greater to Left
 - 1 Nearest greats to Right
 - 1 Nearest Smaller to Loft
 - 1 Nearest Smalle 1 to Rigut
 - (3) Stock Span peroblem.
 - 6 raximum Area of Histogram.
 - 1 Max Anes of Rectangle in Binory Malsix,
 - (8) Rain weiter Toappig
 - D'Implementig a prin sterete ~ less of me (without exten
 - 1 Implementing stack using Healo
 - (1) longest valid parentheors
 - 12) Iterative TOH!

I DENTIFICATION ...

af question 15 07 Array then there & few look 164 ho uppliy stenky protection of also

When we had worther a brute force approach O(2) welth two Loop, and in Onother 1000 ture (18 some, relation blu the 187 Loop then we can apply stack for better Complexity

Uz function (i) > stack, · i boop is defendent on ê the stack can better for (10 ut 10 = 0 ,000 km; 10 +10) och

for (j, j) of to (i, j) t Erroje Silln to was -mulas sons

of office mi Devotosa 10 kms 2011 (1)

5 Oustion Lovavation

U Concopots Ls variations in Concepts to solve New

1101 problem,

Nearst Greater to suignt!

· Psublem Statement

Griven an armony point the west Greaten deront (NGE) for every elevent. The west Joenten elevent for an elevent x is the 1St greaten elevent ou the right side of x in the armony. Elevent for which no greaten elevent exist, Consider west greaten elevent as 1.

arr[]: 1 3 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2 4: 1 1 2

9 TTEJ: 1 3 0 0 1 2 4

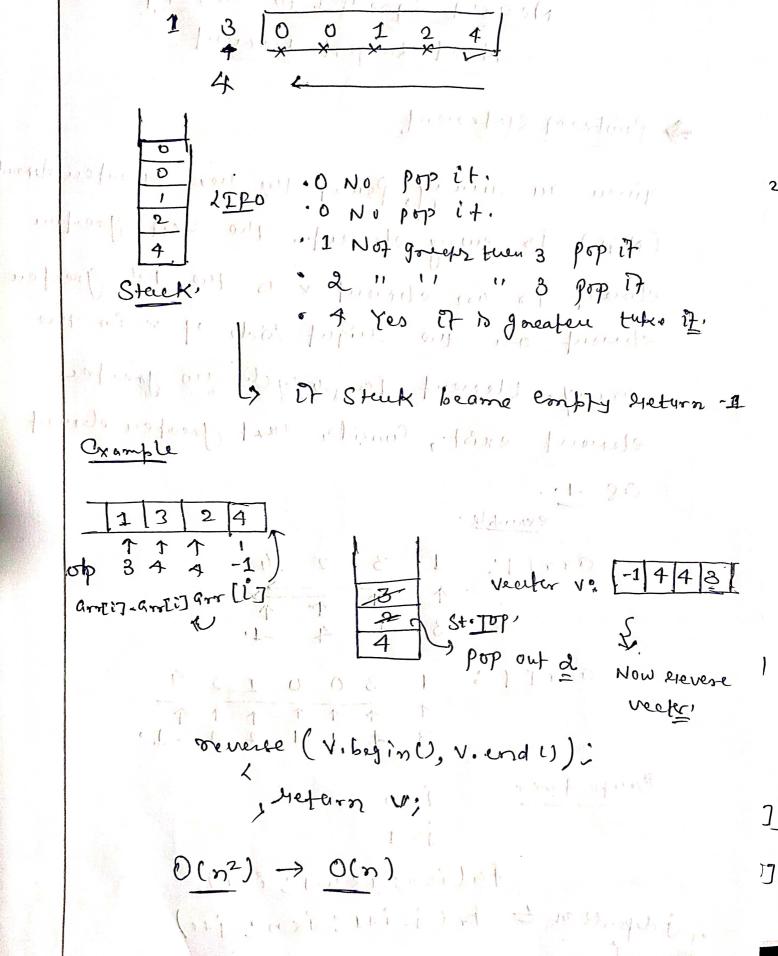
T T T T T T T

3 4 1 1 2 4 -1.

Brute force. 120 ------

for(i20; (2n-1; 644)

if depende on to tr (izi+1; ixn; i++)



What we did! it Stack is Empty() -1 (Push in vegus) S. top () > arr (d) -) Pugh S. top() 'n vert S. top () <= arreid > pop of Stack Employ V. Prob. 1. 14 (7. 1060) F Code. : ((1)) rri) & sel-dong . 2 Vector Kint > V: Stacked into Spor and all -Il for to versity signt to haft. for (int = 8 20-1; i>= 0; i--) 11 Cond for checking either Stack & empty i7 (8. sire = 20) V. pugh-back (-1)3 else A (S-Size()>0 B& S. topU> arrei] fulled in the first states v. push-back (S. topu) o may be the fort else (7 (S. Size () > 0 & & S. Mo (= arr[0]) While (S. SizeU) 0 88 S. Foto (2 arrei) [8. bob ();

Tt (S. 18i-ze () 2 2 0) v. Pugh-balx (S. tobu) S. Pugh-back (arr [i]); genere verber V; :- This is base Coole for all other 9 ust with Little Venlotion.