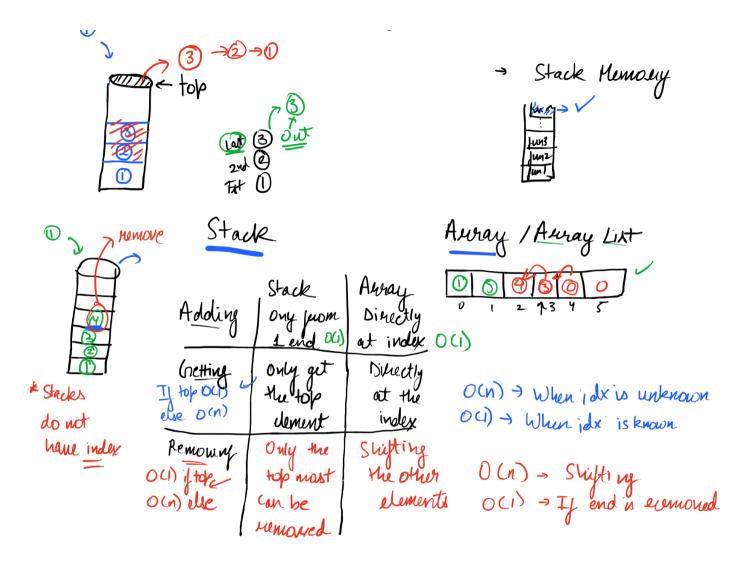
Binary Search

Greduce me search space > Souted

L 0 (10gn) 6 Binary Search Minimize the maximum Maximize the minimum Searching in O(1) time searching in <u>Set</u> Hashmap V First Out cards



- * Stack is like an array without indexes and dry 1 end is available.
 - -> Dynamic

Methods of Stack

Push → Adding an element O(1)
in the stack

Pop → Remones and OCI)
Returns the total ement

Peck > Returns the top O(1)

element but

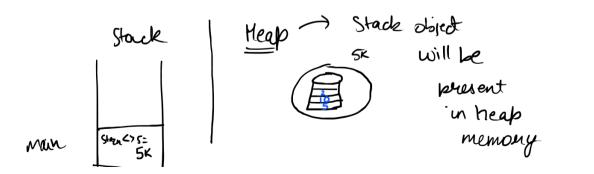
doesn't elemone

Size -> Returns the size OCI)

of the stack warrelok

Push 2
Push 3
Pop => 3
Peck => 2
Push 4
Peck => 4
Push 5
Size == 4

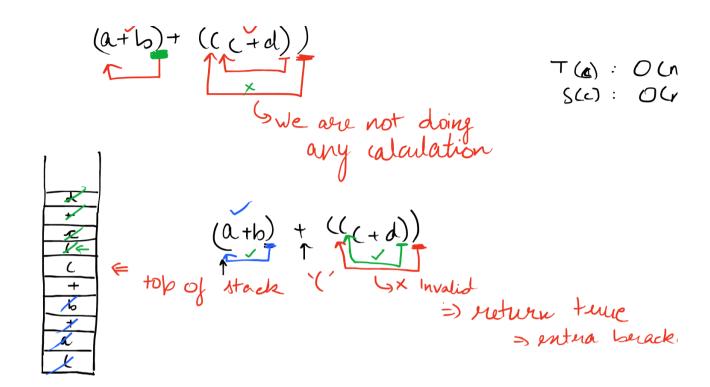
* We cannot traverse a stack - Cannot use indexes.



Internally, Stack uses arrays. oficets data G Doubt + occution BS7 Hashing Entua Brackets (a+b) + ((c+d)) ((a+b)+ (c+d))

(a+b) + ((c+d)+e) No entr

beracke



1) Using 2 loops find the greater element on eright I side.

SC: O(1)

Jon (j=1+1 > n) {

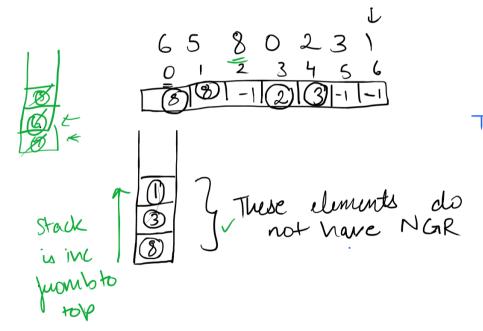
if (a[j] > a[j]);

oux [i] -a[j]

broak

y y

2) Using Stack



restate the current element: s greater than the top of stac surrent el is the No from to

TC: O(n) Sc: O(n)

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