Date: 19th Dec. 2021,

Max-stack

Check If Word Is Valid After Insertion

Design Hit Counter

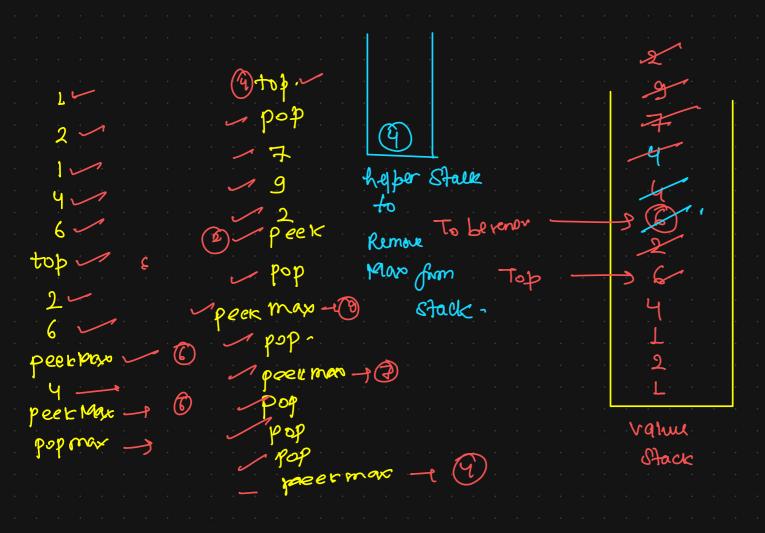
Number Of Recent Calls

Moving Average From Data Stream

Mox stock:

Normal Stack push 0(1) push -(L) Normal Stack Pop 0(1) Normal Back top top -Max value in stock 6(1) peekMox -Remove Max from stack popMax o(h) Ly 9f more than one value is available - Pop topmont

2 7 top-16 Los Peer paso -1 (1) Peek Max -Pop / -1(2) poer man - (5) peek / - @ racer max - (4)



- peck tago Max stack

Check if word is valid after Insertion; * we can greent String S= aabebababeccabc "abc" cut only Index and we com "

abc' - "aabcbab.c c'

abcbab.c c' do it Infinite time to motion Return tenu. the given Bolog. Because string 'S' is a abcb ab abc cc. of it is possible achievable from amply redom true otherw to em'ng. rown fake, " aabebababe ce abe String 8= ababe ababece a babece' "

"abc"

"ababcc"

"ababcabcc"

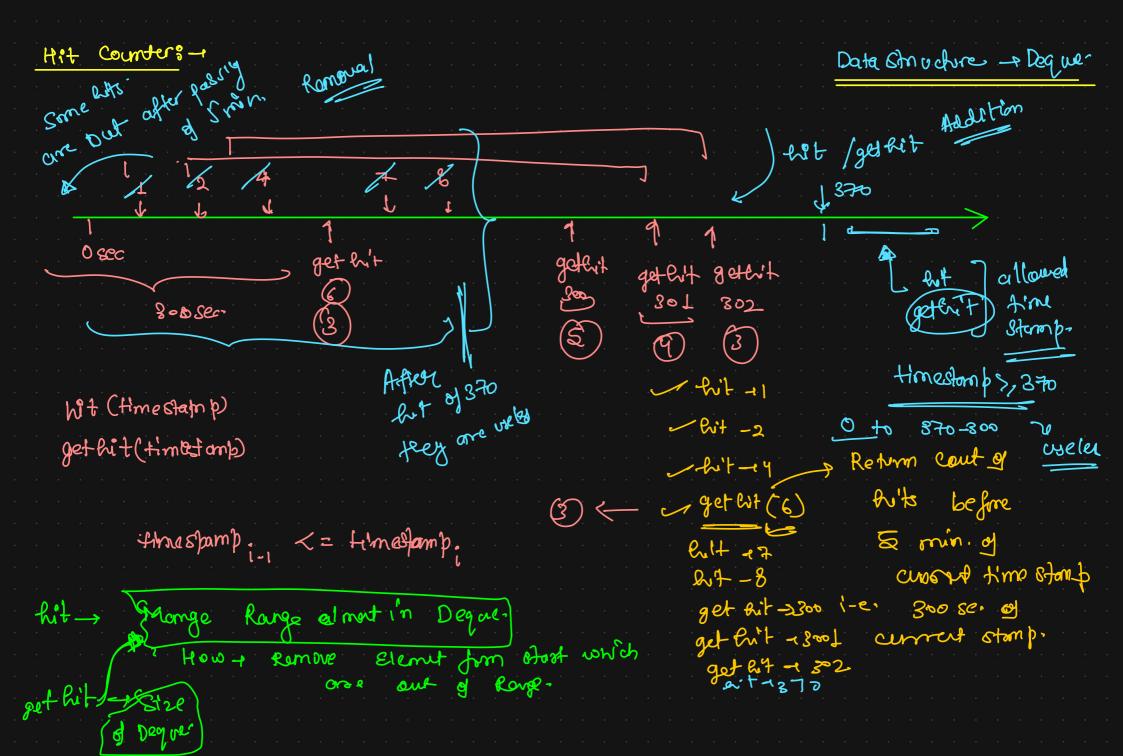
"ababcabcc"

"ababcabcc" ab abcababc ccababccua Return TRUE

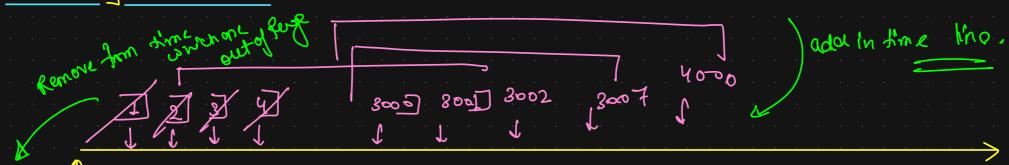
string S = ababe e cab ababe. How we decide is it possible or not -> similar to would parentheles ababe ababece a babee' (()) () fruc a abababacaba Manyamot of b's also imported Le opening - push dosing - prop & check the Rosulsit

abc Return Palse ac falk a b abc c c ab ("()))(Return
False-Li 97 ls similar but un to mange b also a -> openig, C-1 closisz, b reverge,

Discurion -	Empty to 'S'			
Solve/ 9mHenry	of Soludian - Try	to Convert S	into empty str	tg.
"a doe b a b	becase		similar to value	d paseroles
	oc c had the	porter Stack. size = =	to Pefur	m tome.
6 8 9 8 8 8	a Ab C - Rodn:	+ push in start + if ($siz = 5 = 2$, pop + 3 elsc ?	top+b, again for	(h 0)99 (h) h)
	abc abc cabb- }	e conclusion - At the End, - Return	if Stack size?	0 Refum False







0 mili Sec-

Raturn one in Every ply

Moving Average from Douta Streoms k=4. - e window -Stream of Data - Average for every data. 9f enough court of dates Clata 1 2 3 6 1 10 is available them 7 1 1 1 otherwise ang 1 1.5 2 3 5 K= 4 ____ Sym/size of Dogue - add in gurj Syn data, 1/2/3 6 1 6

ang. 1 1.5 2 3 3 5 if som = sum + n data - old data.

even = 8x 8 12-15ice & smaller from k 12+10-2 = 20
=13-1=12