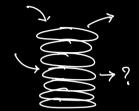
Stack.



→ linked list =>

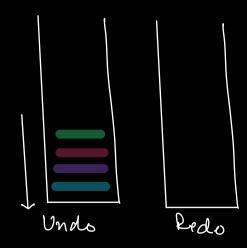


Sunts Last fur Call.

7 Recursion Call Stack

Last In, First Out.

- Recursion Call Stack
- 2 Web browsers. 3 Undo/Redo
- Undo/Redo



- (1) Array
- 2 <u>LL.</u>

int arrisj;

· push (5):

· push (3), push (2), push (6), push (8),

Rush (1) -> Array Inden Dutof bound 7 Over-low. => Dynamic (1- < 90+) Fi top --O 810 Ŋ 10 \uparrow top Ь 2 Push (10) > \mathcal{S} Popls Popls Popis Popls > Underflow. Popls POPIS

.

linked list implementation of stack. 4 TC of insertion at tail \Rightarrow O(1)?
TC of deletion at tail \Rightarrow O(N) TC ef insertion at head => O(1) deletion at head $\Rightarrow O(\perp)$ Push(n) } D(1)

Of Given the library stack, Create a new stack
like Ds that gives us:

Push(x)

Pop()

GetMin()

Wew Stack:

$$min = p_{83}$$

miystack.

#

Push (n): St. push (n)

(theck if stack)

if (n (= minStack.topin) i suit Empty

minStack.push (n);

2

Popi):

(n = st. topin;

St. popi)

if (n = minStack.topin) if (n = minStack.topin) i

minStack.popin;

3

get Min()

minStack.topin

Bi Given a string, Remove pairs of consecutive Amazon elements repeatedly until there are NO Ms. duplicate pairs.

S: abcddcbk abccbk abbk ak.

guiz

S: aaab ab. Quiz

S: abckkcbam

いそりもも

S: abcllcbk

x the pa

Ka Venense.

Computers uses

$$A + B$$

$$A - B$$

*
$$10+3\times4 \Rightarrow 10+3\times4$$

$$= 10 + 34x$$

$$= 1034x +$$

$$#$$
 A + Bxc

$$ABX + C$$

· Infix to Postfix

Quiz
$$4 + 8 + 4$$

$$4 + 8 + 4$$

$$4 + 8 + 4$$

$$10 + 3 + 4 - 4$$

$$10 + 3 + 4 + 4$$

$$10 + 3 + 4 + 4$$

$$10 + 2 - 1 + 6 + 9$$

$$10 + 2 - 1 + 6 + 9$$

$$10 + 2 - 1 + 6 + 9$$

$$10 + 2 - 1 + 6 + 9$$

$$10 + 2 - 1 + 6 + 9$$

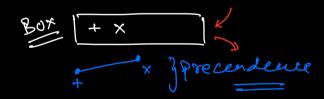
$$10 + 2 - 1 + 6 + 9$$

$$10 + 2 - 1 + 6 + 9$$

$$10 + 2 - 1 + 6 + 9$$

$$9u^2$$
 (10+3) * 2 - (7-6) * (4+8)

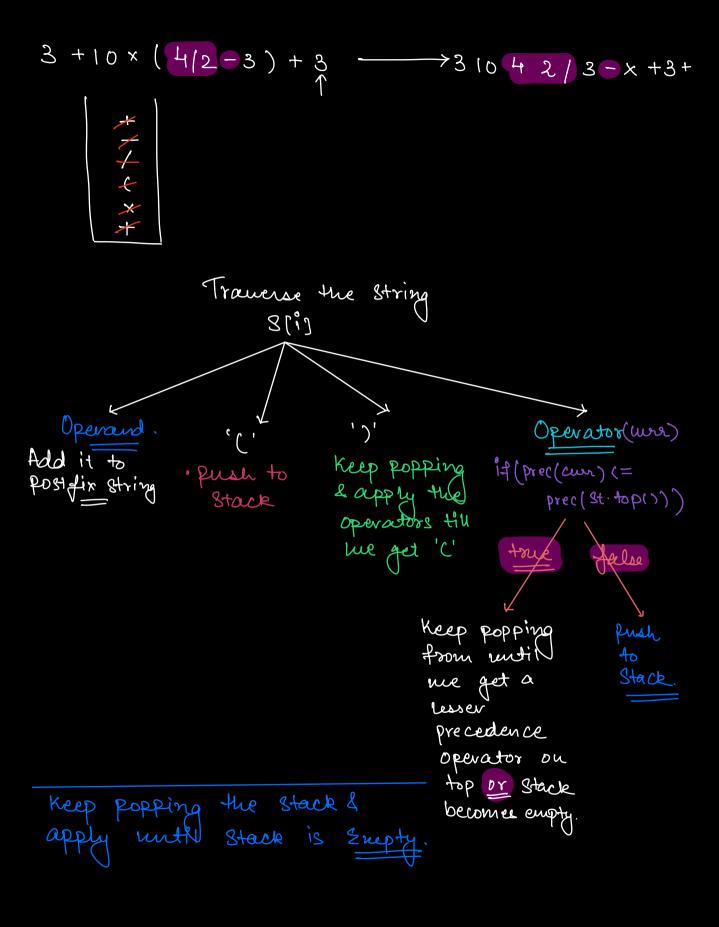
Derands follows the same relative order b/w infix & postfin notation.







$$3 + 10 \times (3 - 4|2) + 3 \longrightarrow 3 10 3 4 2 / - * + 3 +$$



$$A - B \Longrightarrow A B -$$

$$\begin{bmatrix} B \\ A \end{bmatrix} A - B$$