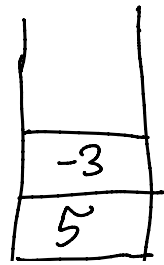
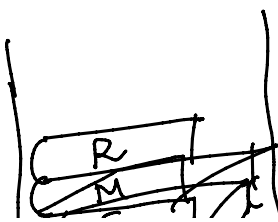


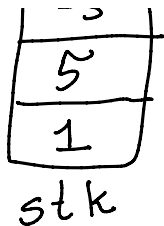
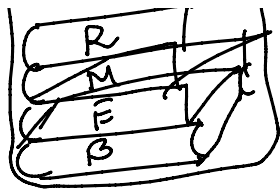
prev = NULL
 curr = head->next
 next = curr->next

$4 + 20 + 6 = 30B$
 $3 \times 20 = 60B$

Stack/Queue → DS (Linear)



- 1) stack - push করা $O(1)$
- 2) stack এর top element check $O(1)$
- 3) stack থেকে pop করা $O(1)$
- 4) stack এর size $O(1)$



3) stack push pop $O(1)$

4) stack size $O(1)$

Recursion \rightarrow Stack

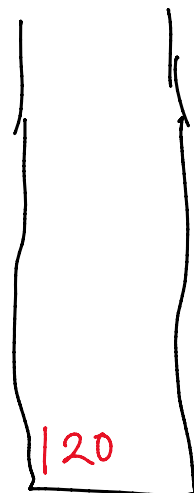
$$f(5) = 5 \times f(4) = 120$$

$$f(4) = 4 \times f(3)$$

$$f(3) = 3 \times f(2)$$

$$f(2) = 2 \times f(1)$$

$$f(1) = 1 \times f(0)$$



$(((()))) \rightarrow$ balanced

$((() ())) \rightarrow$ balanced
0 1 2 3 4 5

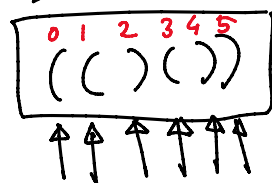
$(()) \rightarrow$ imbalanced

$)) ((\rightarrow$ imbalanced

$(() () (\rightarrow$ imbalanced

$O(N^2)$

$O(N)$



log

$s \leftarrow a \leftarrow k \leftarrow i \leftarrow z \leftarrow \leftarrow b$

$| b |$

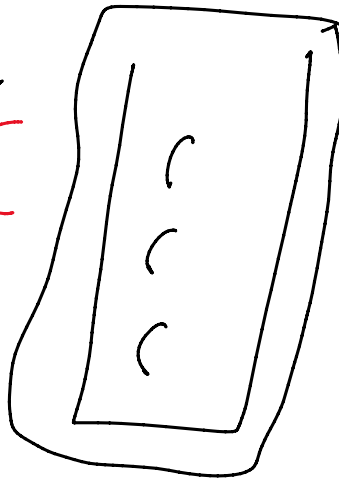
b
i
k
a
s

sakit

$O(N^2)$

$N \times N = N^2$

↓ ↓ ↓ ↓ ↓ ↓
))) (((



open = 3