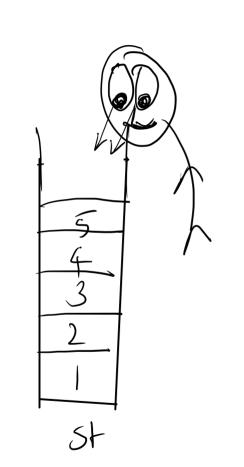
Last In, finit out

Stack

Insertion st.push(3) st. pop ()



## topmost eliment

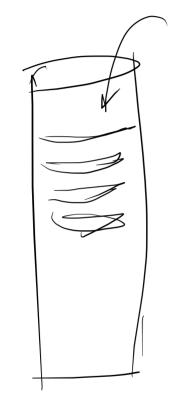
, peek

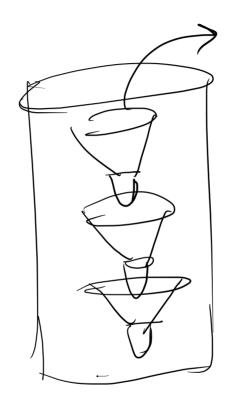
St. peck() >> 5

Stack is Full (can't push) Lo Stack Overttown Stack is Empty (contr pap)
L) Stack underflow

## Stack 12 Size C)

 $St.sizel) \rightarrow 3$ 





Stack

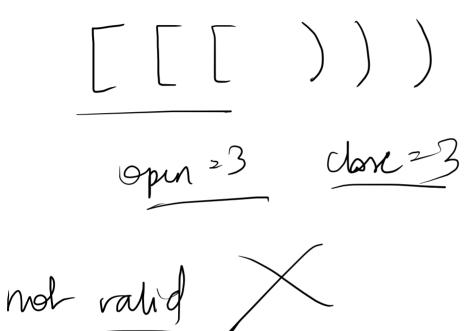
Input: [{()}}]

(valid)

Output: tme

Input: [ ( ] ) Output: False 

oper 23 cloning 23



11 Opening -> push

check

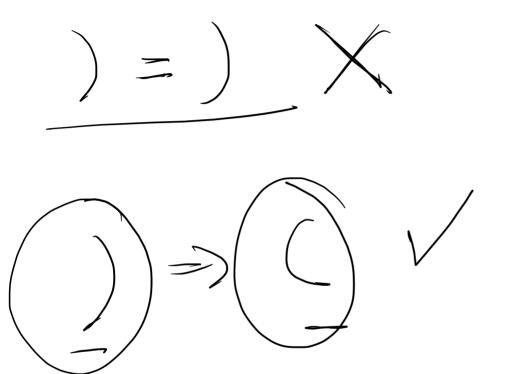
and per

( { ] ) } Checking failed schum faire

cloning > check

T.C = O(n)

Aux space = O(n)



AA CAD

Output AAC

AA CANH D amz AAC

am. 2 " 1) ans = St. pop() tans T-C = 0 (n)

Aux S.C = 0 (n)

abccbadd abbadd a or old

 $\frac{x}{a}$   $\frac{x}{b}$   $\frac{x}{a}$   $\frac{x}$ 

ans = pop + ans ans = c' + a' ans = ca

à bà ¿¿ co

 $\frac{TC = O(n)}{Aux SC = O(n)}$