

# Minimum Add to Make Parentheses Valid $\rightarrow$

①  $\rightarrow$  Empty valid

②  $\rightarrow$  A B  $\rightarrow$  AB  $\rightarrow$  valid

ex  $\rightarrow$   $\underbrace{()}_A \underbrace{()}_B \rightarrow \underbrace{()()}_\text{valid}$

③  $\rightarrow$  A  $\rightarrow$  (A)

Simply Every opening should have closing

Approach  $\rightarrow$  ans = 0

if (ch == '(')

sto push(ch)

}

else if

if (!st.empty())

sto pop()

else if

ans++

}

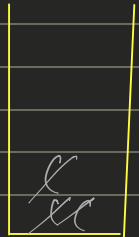
}

return st.size() + ans;

DRY-Run-  
→

( ) ( ) ) )  
↑ ↑ ↑ ↑ ↑

No push in stack  
ans ++



⇒ return st.size() + ans ⇒ 1  
          ↓          ↓  
          0          1

$T.C = space = O(N)$