Valid Parenthesis

$\{ \}, [ ], ( )$

$\{ ([( ] \}]$

$\uparrow \quad \uparrow \uparrow \uparrow$
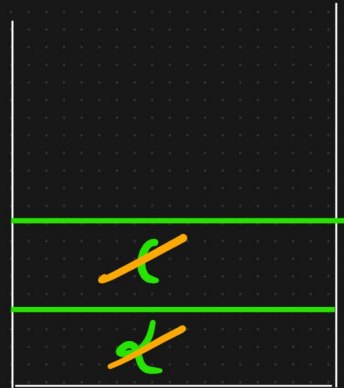
$\{, [, ($

String = '$\{ ( ) \}$'

0 1 2 3

Stack → Last In first Out

1) for every open bracket,

store char inside the stack.

char == ') '

dictionary [' (') = ') '

Stack
Data
Structure

2) for every close bracket, pop the

element from

the stack.

3) valid Parenthesis

↳ Empty Stack

dictionary [key] = value

d [[ ] } $\longrightarrow$ false
↑↑ ↑↑↑

dictionary [key] = value