Problem Domain

- Write a function called validate brackets
- Arguments: string
- Return: boolean
 - representing whether or not the brackets in the string are balanced

True or False

There are 3 types of brackets:

- Round Brackets: ()
- Square Brackets : []
- Curly Brackets: {}

input output

Big O

A string, ex (), {}()

big O. 1(n) time using a stack

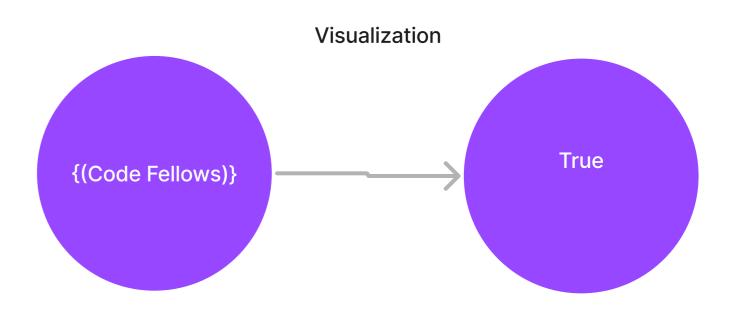
big O O(n) returning only a boolean

Test

- 1. if string= '[]', return true
- 2. if string = (){ , return false
- 3. only open characters and no closed = [[, returns false



string	'[(House]]
stack	[] empty
open	[(
closed)]
stack	[(
loop closed for match	matches in stack
boolean	true



Code

```
open_list = ["[","{","("]
    close_list = ["]","}",")"]
    def check(myStr):
        stack = []
        for i in myStr:
            if i in open_list:
                stack.append(i)
            elif i in close_list:
10
                pos = close_list.index(i)
11
                if ((len(stack) > 0) and
12
                     (open_list[pos] ==
13
    stack[len(stack)-1])):
                    stack.pop()
14
                else:
15
                    return False
16
        if len(stack) == 0:
17
            return True
18
19
        else:
20
            return False
```