Given a string s containing just the characters '(', ')', '{', '}', '[' and ']', determine if the input string is valid.

An input string is valid if:

1. Open brackets must be closed by the same type of brackets.
2. Open brackets must be closed in the correct order.
3. Every close bracket has a corresponding open bracket of the same type.

```cpp
class Solution {

public:

    bool isValid(string s) {

        stack<char> c;

        for(char i: s)

        {

        switch(i)

        {

            case '(':

            c.push(i);

            break;

            case ')':

            if(c.empty()!=1 && c.top()=='(')

            {

                c.pop();

            }

            else

            {

                c.push(i);

            }
```

```cpp
                break;

            case '[':

                c.push(i);

                break;

            case ']':

                if(c.empty()!=1 && c.top()=='[')

                {

                    c.pop();

                }

                else

                {

                    c.push(i);

                }

                break;

            case '{':

                c.push(i);

                break;

            case '}':

                if(c.empty()!=1 && c.top()=='{')

                {

                    c.pop();

                }

                else

                {

                    c.push(i);
```

```
            }

        break;

    }

}

return c.empty();

}

};
```

Problem List

Description | Accepted | Editorial | Solutions | Submissions

← All Submissions

Accepted

Antra_03 submitted at Jul 17, 2024 15:35

Editorial | Solution

Runtime	Memory
0 ms · Beats **100.00%** 🖐	**7.68** MB · Beats **39.02%**
✨ Analyze Complexity	

75%

50%

25%

0%
        1ms   2ms   3ms

        1ms   2ms   3ms

Code | C++

```cpp
class Solution {
public:
    bool isValid(string s) {
        stack<char> c;
        for(char i: s)
        {
            switch(i)
            {
```

⌄ View more

</> Code

C++ ∨   🔒 Auto

```cpp
19              c.push(i);
20          }
21
22          break;
23          case '[':
24          c.push(i);
25          break;
26          case ']':
27          if(c.empty()!=1 && c.top()=='[')
28          {
```

Saved   Ln 40, Col 43

☑ Testcase | >_ Test Result

Accepted   Runtime: 0 ms

• Case 1   • Case 2   • Case 3

Input

s =
"(]"

Output

false

Expected

false

♡ Contribute a testcase