

Weetcodes

1) String s = "bbccabcbb"

s.length();

(String s){ HashSet<Character> set = new HashSet<>();

int left=0;

int maxLength=0;

for (int right=0; right<s.length(); right++){

while (set.contains(s.charAt(right))){

set.remove(s.charAt(left)); left++;

set.add(s.charAt(right));

maxLength=Math.max(maxLength, right-left+1);

return maxLength;}

Output: length=3

2) String s = "(){}[]{}";

isValid(s);

stack<Character> stack = new Stack<>();

for (char ch:s.toCharArray()) {

if (ch == '(' || ch == '{' || ch == '[') stack.push(ch);

else if (stack.isEmpty()) { return false; }

char top = stack.pop();

if ((ch == ')' && top == '(') || (ch == '}' && top == '{') || (ch == ']' && top == '[')) { return true; }

if (stack.isEmpty()) { return true; }

stack.isEmpty();

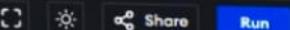
Output: True.

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Main.java



Output

Clear

Valid: true

--- Code Execution Successful ---

```
1- import java.util.Stack;
2- public class Main {
3-     public static void main(String[] args) {
4-         String s = "()[]()";
5-         System.out.println("Valid: " + isValid(s));
6-     }
7-     public static boolean isValid(String s) {
8-         Stack<Character> stack = new Stack<>();
9-         for (char ch : s.toCharArray()) {
10-             if (ch == '(' || ch == '{' || ch == '[') {
11-                 stack.push(ch);
12-             } else {
13-                 if (stack.isEmpty()) {
14-                     return false;
15-                 }
16-                 char top = stack.pop();
17-                 if ((ch == ')' && top != '(') ||
18-                     (ch == '}' && top != '{') ||
19-                     (ch == ']' && top != '[')) {
20-                         return false;
21-                     }
22-                 }
23-             }
24-         }
25-         return stack.isEmpty();
26-     }
}
```

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```
1- import java.util.HashSet;
2- class LongestSubstring {
3-     public static void main(String[] args) {
4-         String s = "abcabcbb";
5-         System.out.println("Length: " + lengthOfLongestSubstring(s));
6-     }
7-     public static int lengthOfLongestSubstring(String s) {
8-         HashSet<Character> set = new HashSet<>();
9-         int left = 0;
10-        int maxLength = 0;
11-        for (int right = 0; right < s.length(); right++) {
12-            while (set.contains(s.charAt(right))) {
13-                set.remove(s.charAt(left));
14-                left++;
15-            }
16-            set.add(s.charAt(right));
17-            maxLength = Math.max(maxLength, right - left + 1);
18-        }
19-        return maxLength;
20-    }
21- }
```

Length: 3

--- Code Execution Successful ---

