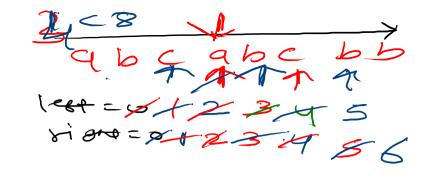
5-3t (8 1 sed - 1 est +) abcabcbb

```
public static int longestSubstring(String str){
   int left=0;
   int right=0;
   int max=0;
   HashSet<Character> hs = new HashSet<>();
   while(right<str.length()){</pre>
        char ch = str.charAt(right);
       if(hs.add(ch)){
            max = Math.max(max,right-left+1);
            right++;
        }else{
            while(str.charAt(left)!=ch){
                hs.remove(str.charAt(left));
                left++;
            hs.remove(ch);
            left++;
    return max;
```



人女,女,女,女, 人女,女,女,

Longest Substring Without Repeating Characters 6

```
public class Solution {
    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named
        Scanner sc = new Scanner(System.in);
        String str = sc.next();
        System.out.println(longestSubstring(str));
    public static int longestSubstring(String str){
        int left=0;
        int right=0;
        int max=0;
        HashSet<Character> hs = new HashSet<>();
        while(right<str.length()){</pre>
            char ch = str.charAt(right);
            if(hs.add(ch)){
                max = Math.max(max,right-left+1);
                right++;
            }else{
                while(str.charAt(left)!=ch){
                    hs.remove(str.charAt(left));
                    left++;
                hs.remove(ch);
                left++;
        return max;
```

abccccdd

Abccccdd $4 \rightarrow 1$ $CCOAACCV b \rightarrow 7$ $CCOAACCV b \rightarrow 7$ $CCOAACCV C \rightarrow Y$ $CCOAACCV C \rightarrow Y$ $A \rightarrow 2$ $CCOAACCV C \rightarrow Y$ $A \rightarrow 2$ $CCOAACCV C \rightarrow Y$ $CCOAACCV C \rightarrow Y$ CCOAACCV C

Cc49dcc2 CCdbdcc 455. Size (1)0 lent 1 Clse &

Length of Longest Palindrome

```
1 import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5 import java.util.regex.*;
  public class Solution {
 8
       public static void main(String[] args) {
 9
10
           /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be
11
           Scanner sc = new Scanner(System.in);
           String str = sc.next():
12
13
           System.out.println(longestPalindrome(str));
14
       public static int longestPalindrome(String str){
15
           int len=0;
16
17
           HashSet<Character> hs = new HashSet<>();
           for(int i=0;i<str.length();i++){</pre>
18
               char ch = str.charAt(i);
19
               if(hs.contains(ch)){
20
21
                   hs.remove(ch);
22
                   len+=2;
23
24
               else{
25
                   hs.add(ch);
               }
26
27
28
           return hs.size()>0?len+1:len;
29
30 }
```