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1  /*Author: Bochen (mddboc@foxmail.com)
2  Last Modified: Tue Apr 10 22:28:45 CST 2018*/
3
4  /*Given a string, find the length of the longest substring without repeating
   characters.
5
6       Examples:
7
8       Given "abcabcbb", the answer is "abc", which the length is 3.
9
10      Given "bbbbbb", the answer is "b", with the length of 1.
11
12      Given "pwwkew", the answer is "wke", with the length of 3. Note that the
   answer must be a substring, "pwke" is a subsequence and not a substring.*/
13
14
15  import java.lang.System;
16  import java.util.*;
17  import java.lang.Math;
18  import java.util.HashMap;
19
20
21  class ListNode
22  {
23      int val;
24      ListNode next;
25
26      ListNode(int x)
27      {
28          val = x;
29      }
30  }
31
32
33
34  public class Main
35  {
36      public static void main(String[] args)
37      {
38          String s = "bbbbbb";
39
40          Solution solution = new Solution();
41
42          int receive = solution.lengthOfLongestSubstring(s);
43
44          System.out.println("haha");
45
46      }
47
48
49  }
50
51
52  class Solution {
53      public int lengthOfLongestSubstring(String s) {
54
55          if (s == null || s.length() == 0) {
56              return 0;
57          }
58
59          HashMap<Character, Integer> characterIntegerHashMap = new HashMap<Character,
   Integer>();
60
61          int sLength = s.length();
62          int result = 0;
63          int startIndex = 0;
64
65          for ( int i = 0; i < sLength; i++ )
66          {
67              if ( characterIntegerHashMap.containsKey( new Character(s.charAt(i)) ) )
68              {
69                  startIndex = Math.max(
70                      characterIntegerHashMap.get( new Character(s.charAt(i)) ) +

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                                1, startIndex);
71         }
72
73         characterIntegerHashMap.put(new Character(s.charAt(i)), new Integer(i));
74         result = Math.max(result, i - startIndex + 1);
75
76     }
77
78     return result;
79 }
80 }
```