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1  /*Author: Bochen (mddboc@foxmail.com)
2  Last Modified: Tue Apr 10 22:28:44 CST 2018*/
3
4  /*Write a function to find the longest common prefix string amongst an array of
   strings.*/
5
6
7  import java.lang.System;
8
9
10 public class Main
11 {
12     public static void main(String[] args)
13     {
14         String[] input = {"a", "b"};
15
16         Solution solution = new Solution();
17
18         String receiveFlag = solution.longestCommonPrefix(input);
19
20         System.out.println("haha");
21     }
22
23
24 }
25
26
27 class Solution {
28     public String longestCommonPrefix(String[] strs) {
29
30         if (strs == null || strs.length < 1)
31         {
32             return "";
33         }
34         else if (strs.length == 1)
35         {
36             return strs[0];
37         }
38
39
40         int minLength = this.findMinLength(strs);
41         String prefix = strs[0].substring(0,minLength);
42         for ( int index = 1; index < strs.length; index++ )
43         {
44             while (true)
45             {
46                 if ( strs[index].indexOf(prefix) != 0 )
47                 {
48                     prefix = prefix.substring(0, prefix.length() - 1);
49                 }
50                 else
51                 {
52                     break;
53                 }
54             }
55         }
56
57         return prefix;
58     }
59
60
61     private int findMinLength(String[] strs)
62     {
63         int strsLength = strs.length;
64
65
66         int minLength = strs[0].length();
67         for (int index = 0; index < strsLength; index++ )
68         {
69             if ( strs[index].length() < minLength )
70             {
71                 minLength = strs[index].length();
72             }

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73         }
74
75         return minLength;
76     }
77 }
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