Sherlock and the Valid String ■



lem Submissions Leaderboard Discussions Editorial

Sherlock considers a string, s, to be valid if either of the following conditions are satisfied:

- 1. All characters in **s** have the same exact frequency (i.e., occur the same number of times). For example, **s** = "aabbcc" is valid, but **s** = "baacdd" is not valid.
- 2. Deleting exactly 1 character from s will result in all its characters having the same frequency. For example, s = "aabbcc" and s = "aabbc" are valid because all their letters will have the same frequency if we remove 1 occurrence of c, but s = "abcccc" is not valid because we'd need to remove 3 characters.

Given s, can you determine if it's valid or not? If it's valid, print YES on a new line; otherwise, print NO instead.

Input Format

A single string denoting s.

Constraints

- $1 \le |s| \le 10^5$
- String **s** consists of lowercase letters only (i.e., [a-z]).

Output Format

Print YES if string s is valid; otherwise, print NO instead.

Sample Input 0

aabbcd

Sample Output 0

NO

Explanation 0

We would need to remove two characters from s = "aabbcd" to make it valid, because a and b both have a frequency of $\mathbf{2}$ and \mathbf{c} and \mathbf{d} both have a frequency of $\mathbf{1}$. This means \mathbf{s} is *invalid* because we'd need to remove more than $\mathbf{1}$ character to make all its letters have the same frequency, so we print NO as our answer.

Submissions: 17539 Max Score: 35 Difficulty: Medium Rate This Challenge: ななななな

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More

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Current Buffer (saved locally, editable) & • •
                                                                                                                                                                                                                                           Java 8
                                                                                                                                                                                                                                                                                                                                 *
   1 ▼ import java.io.*;
   2 import java.util.*;
   3 import java.text.*;
          import java.math.*;
          import java.util.regex.*;
   6
   7 ▼ public class Solution {
   8
   9 .
                       static String isValid(String s){
 10
                                 Map<Character,Integer> map = new HashMap<Character,Integer>();
 11
 12
                                 for(int i = 0 ; i < s.length() ; i++){</pre>
 13 ▼
 14
 15 ▼
                                            if(map.containsKey(s.charAt(i))){
                                                       map.put(s.charAt(i),map.get(s.charAt(i))+ 1);
 16
 17
                                            }
 18
                                            else{
 19
                                                       map.put(s.charAt(i),1);
 20
 21
                                 }
 22
 23
                                 ArrayList<Integer> list = new ArrayList<>(map.values());
 24
                                 Collections.sort(list);
 25
 26
 27
                                 if(list.size() == 2 && Math.abs(list.get(0) - list.get(1)) <= 1){</pre>
 28
                                            return "YES";
 29
 30
 31 ▼
                                 if(list.get(0) == list.get(list.size() - 1)){
 32
                                            return "YES";
 33
                                 else if((list.get(0) == list.get(1) && list.get(0) == list.get(list.size() - 2)) ||
 34
 35 •
                                                                  ((list.get(list.size() - 1) == list.get(list.size() - 2)) \& (list.get(1) == list.get(list.get(1) == list.get(list.get(1) == list.get(list.size() - 2)) \& (list.get(1) == list.get(list.get(1) == list.g
            2)))){
 36
                                            return "YES";
 37
                                 }
 38
                                 return "NO";
 39
 40
 41
                       }
 42
 43 ▼
                       public static void main(String[] args) {
 44
                                 Scanner in = new Scanner(System.in);
 45
                                 String s = in.next();
 46
                                 String result = isValid(s);
 47
                                 System.out.println(result);
 48
 49
            }
 50
 51
                                                                                                                                                                                                                                                                                                         Line: 50 Col: 1
                                                          Test against custom input
                                                                                                                                                                                                                                                                            Run Code
                                                                                                                                                                                                                                                                                                              Submit Code
Upload Code as File
```

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