Longest Palindrome

Try to solve the Longest Palindrome problem.

We'll cover the following

Statement

Given a string, `palString`, consisting of lowercase or uppercase letters, return the length of the longest palindrome that can be built with those letters.

> **Note:** Letters are case sensitive, for example, `"Aa"` is not considered a palindrome here.

Constraints:

- $1 \leq$ `palString.length` ≤ 2000
- `palString` consists of lowercase or uppercase English letters only.

Examples

Sample example 1

Input

palString	"abccccdd"

Output

```
length = 7
```

The length of the longest possible palindrome, i.e., "dccaccd", is 7.

1 of 2

Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

Longest Palindrome

1 What is the length of the longest palindrome that you can make using the letters in the string below?

“abcccdddeeeeeeff”

A) 15

B) 12

C) 13

Submit Answer

Question 1 of 2
0 attempted

Reset Quiz

Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

> **Note:** As an additional challenge, we have intentionally hidden the solution to this puzzle.

Drag and drop the cards to rearrange them in the correct sequence.

Iterate through the counts in the hash map, and check whether each value is even or odd.

After going through all the character counts in the hash map, if the flag for odd-valued counts is set, add it to `palLongest`.

Otherwise, add/subtract 1 from this odd value and add that to `palLongest`. Also, set a

flag to indicate that an odd-valued count was encountered.

Iterate through the input string to count the occurrences of each character and to store these in a hash map.

If a count is even, add this value to `palLongest`–that is, the length of the longest possible palindrome.

Reset Submit

Try it yourself

Implement your solution in the following coding playground.

> logic of the solved puzzle into a coded solution.

Java

usercode > main.java

```
1  import java.util.*;
2  public class Main{
3      public static int longestPalindrome(String palString) {
4          // Your code will replace the placeholder return statement.
5          return 1;
6      }
7  }
```

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Test Cases Results

Case 1 Case 2 Case 3

Input #1

"sfbaisdugfiubasdjFSDIBJS"

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Solution: Isomorphic S...

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