InfyTQ SET 003

Solved Challenges **1/5**

Back To Challenges List

Length of the Palindromic String

ID:10570 **Solved By 306 Users**

InfyTQ

The program must accept a string **S** containing digits as the input. The program must check whether it is a palindrome or not. If it is not a palindrome, reverse the string, add it to the original string and check again. The program must repeat the process until the string becomes palindrome. Finally, the program must print the length of the palindromic string.

Boundary Condition(s):
1 <= Length of S <= 10^8

Input Format:
The first line contains S.

Output Format:
The first line contains the length of the palindromic string.

Example Input/Output 1:
Input:
145

Output:
3

Explanation:
The given string is **145**, it is not a palindrome.
After reversing and adding, **145+541 = 686**. The length of the palindromic string 686 is **3**.
Hence the output is 3

Example Input/Output 2:
Input:
1

Output:
1

Max Execution Time Limit: 500 millisecs

Ambiance

Python3 (3.x)

Reset

```
1  string = input().strip()
2
3  while(string != string[::-1]):
4      string = str(int(string) + int(string[::-1]))
5
6  print(len(string))
```

Code did not pass the execution

TestCase ID: 58084

Input:

145

Expected Output:

3

Your Program Output:

4

Save Run

Run with a custom test case (Input/Output)