

IOBS

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Palindromic Sum(String M3)

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Program to find maximum even length of palindromic sum substring. Find the length of longest contiguous substring of a string such that the length of the substring is 2*N digits and the sum of the leftmost N digits is equal to the sum of rightmost N digits. If there is no such substring then return 0.

Input Format

1. Take the string as input from the user

Constraints

1. 0 <= num <= 1000000

Output Format

1. It should give maximum even length of palindromic sum substring

Sample Input 0

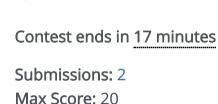
13267224

Sample Output 0

6

Explanation 0

String "326722" has 6 digits. Sum of first 3 digits is 3+2+6 = 11 = 7+2+2 = sum of last 3 digits.



Difficulty: Medium

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- 1 ▼#include <cmath>
- #include <cstdio>
- #include <vector>
- #include <iostream>
- #include <algorithm>
- using namespace std;

```
int f(string s)
9 ▼{
10
        int n=s.length();
        int res[n+1];
11 ₹
12
13
        for(int i=0;i<=n;i++)</pre>
14 ▼
             res[i]=0;
15
        for(int i=1;i<=n;i++)</pre>
16
             res[i]=res[i-1]+(s[i-1]-'0');
17 ▼
18
19
        int m=0;
        for(int i=0;i<n-1;i++)
20
21 🔻
22
             for(int j=i+1;j<n;j+=2)</pre>
23 🔻
24
                 int r=j-i+1;
25
                 int mid=i+r/2;
                 if((res[mid]-res[i]==res[j+1]-res[mid])&& m<r) m=r;</pre>
26
27
28
29
        return m;
30 }
31 vint main() {
32
      string s;
33
        cin>>s;
        cout<<f(s)<<"\n";
34
35
36
        return 0;
37 }
38
```

Line: 1 Col: 1

⚠ <u>Upload Code as File</u>

Test against custom input

Congratulations, you passed the sample test case. Click the Submit Code button to run your code against all the test cases. Input (stdin) 13267224 Your Output (stdout) 6 Expected Output					
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6 Expected Output	13201224				
6 Expected Output					
6 Expected Output	Your Output (st	lout)			
Expected Output	. `				
Expected Output	6				
	0				
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