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Palindromic Sum(String M3)

Problem

Submissions

Leaderboard

Discussions

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 $2 \times N$ 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. $0 \leq \text{num} \leq 1000000$

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.



Contest ends in 17 minutes

Submissions: [2](#)



Max Score: 20

Difficulty: Medium

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Current Buffer (saved locally, editable)  

C++



```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
```

```
7
8 int f(string s)
9 {
10     int n=s.length();
11     int res[n+1];
12
13     for(int i=0;i<=n;i++)
14         res[i]=0;
15
16     for(int i=1;i<=n;i++)
17         res[i]=res[i-1]+(s[i-1]-'0');
18
19     int m=0;
20     for(int i=0;i<n-1;i++)
21     {
22         for(int j=i+1;j<n;j+=2)
23         {
24             int r=j-i+1;
25             int mid=i+r/2;
26             if((res[mid]-res[i]==res[j+1]-res[mid])&& m<r) m=r;
27         }
28     }
29     return m;
30 }
31 int main() {
32     string s;
33     cin>>s;
34     cout<<f(s)<<"\n";
35
36     return 0;
37 }
38
```

Line: 1 Col: 1

[Upload Code as File](#)[Test against custom input](#)[Run Code](#)[Submit Code](#)

Testcase 0

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

6

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