

DP-S020 (E050)Solved Challenges **0/1**[Back To Challenges List](#)**Palindromic Partition****ID:11161 Solved By 389 Users**

The program must accept a string **S** as the input. The program must print the minimum number of cuts required so that all the substring values in **S** are palindromes as the output.

Boundary Condition(s):

1 <= Length of S <= 1000

Input Format:

The first line contains the string **S**.

Output Format:

The first line contains the minimum number of cuts required so that all the substring values in **S** are palindromes.

Example Input/Output 1:

Input:

evening

Output:

2

Explanation:

Here the minimum number of cuts required is **2**.

After two cuts in the string "**evening**", the palindromic substring values are "**eve**", "**nin**" and "**g**".

Example Input/Output 2:

Input:

rotator

Output:

0

Example Input/Output 3:

Input:


waitingnight

Output:

7

Max Execution Time Limit: 500 millisecs

Ambiance

Java (12.0) 

Reset

```
1  import java.util.*;
2  public class Hello {
3
4      public static void main(String[] args) {
5          Scanner sc = new Scanner(System.in);
6
7          String str = sc.next();
8
9          int N = str.length();
10         boolean palin[][] = new boolean[N][N];
11
12         for(int index=0;index<N;index++)
13         {
14             palin[index][index] = true;
15         }
16         for(int index=0;index<N-1;index++)
17         {
18             if(str.charAt(index) == str.charAt(index+1))
19                 palin[index][index+1] = true;
20         }
21         for(int len=3;len<=N;len++)
22         {
23             for(int index=0;index<N-len+1;index++)
24             {
25                 if(str.charAt(index)==str.charAt(index+len-1)
26                     && palin[index+1][index+len-2])
27                 {
28                     palin[index][index+len-1] = true;
29                 }
30             }
31         }
32
33         Integer splits[][] = new Integer[N][N];
34
35         System.out.println(calcSplits(str,0,N-1,palin,splits))
36     }
37
38
39
40     public static int calcSplits(String str,int start,int end,
41         boolean palin[][],Integer splits[][]))
42     {
```

```
43     if(palin[start][end])
44         return 0;
45
46     if(splits[start][end]!=null)
47     {
48         return splits[start][end];
49     }
50     int minSplits = str.length();
51
52     for(int index=start;index<end;index++)
53     {
54         int currSplits = 1+calcSplits(str,start,index,palin
55                                     ,splits)+calcSplits(str,index+1,end,palin,splits);
56
57         if(currSplits<minSplits)
58             minSplits = currSplits;
59     }
60     splits[start][end] = minSplits;
61     return minSplits;
62
63 }
```

Code did not pass the execution

— ×



Hello.java:50: error: cannot find symbol

minSplits = str.length();

^

symbol: variable minSplits

location: class Hello

Hello.java:56: error: cannot find symbol

if(currSplits ^

symbol: variable minSplits

location: class Hello

Hello.java:57: error: cannot find symbol

minSplits = currSplits;

^

symbol: variable minSplits

location: class Hello

Hello.java:59: error: cannot find symbol

splits[start][end] = minSplits;

^

symbol: variable minSplits

location: class Hello

Hello.java:61: error: cannot find symbol

return minSplits;

^

symbol: variable minSplits

location: class Hello
5 errors

Save Run

☐ Run with a custom test case (Input/Output)