



# Mars Exploration

by Shafaet

Problem

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Sami's spaceship crashed on Mars! She sends  $n$  sequential SOS messages to Earth for help.



Letters in some of the SOS messages are altered by cosmic radiation during transmission. Given the signal received by Earth as a string,  $S$ , determine how many letters of Sami's SOS have been changed by radiation.

## Input Format

There is one line of input: a single string,  $S$ .

**Note:** As the original message is just SOS repeated  $n$  times,  $S$ 's length will be a multiple of 3.

## Constraints

- $1 \leq |S| \leq 99$
- $|S| \% 3 = 0$
- $S$  will contain only uppercase English letters.

## Output Format

Print the number of letters in Sami's message that were altered by cosmic radiation.

## Sample Input 0

```
SOSSPSSQSSOR
```

## Sample Output 0

```
3
```

## Sample Input 1

```
SOSSOT
```

## Sample Output 1

```
1
```

**Explanation****Sample 0**

$S = \text{SOSSPSSQSSOR}$ , and signal length  $|S| = 12$ . Sami sent 4 SOS messages (i.e.:  $12/3 = 4$ ).

Expected signal: **SOSSOSSOSSOS**

Received signal: **SOSS P SS Q SSO R**

We print the number of changed letters, which is **3**.

**Sample 1**

$S = \text{SOSSOT}$ , and signal length  $|S| = 6$ . Sami sent 2 SOS messages (i.e.:  $6/3 = 2$ ).

Expected Signal: **SOSSOS**

Received Signal: **SOSSO T**

We print the number of changed letters, which is **1**.



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Submissions: [15851](#)

Max Score: 15

Difficulty: Easy

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☆☆☆☆☆

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Current Buffer (saved locally, editable)

C#

```

1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 using System.Linq;
5 class Solution {
6
7     static void Main(String[] args) {
8         string S = Console.ReadLine();
9
10
11         //string S = "SOSSPSSQSSOR";
12         int N = 5; // or whatever
13         string sos = string.Concat(Enumerable.Repeat("SOS", S.Length/3).ToArray());
14         //Console.WriteLine(sos);
15
16         int ans = 0;
17         for (int i = 0; i < S.Length; i++)
18         {
19             if (sos[i] != S[i])
20             {
21                 ans++;
22             }
23         }
24         Console.WriteLine(ans);
25
26     }
27 }
28

```

Line: 10 Col: 9

[Upload Code as File](#)

☐ Test against custom input

Run Code

Submit Code

**Congrats, you solved this challenge!**

✓ Test Case #0

✓ Test Case #3

✓ Test Case #6

✓ Test Case #1

✓ Test Case #4

✓ Test Case #7

✓ Test Case #2

✓ Test Case #5

✓ Test Case #8

✓ Test Case #9

✓ Test Case #10

Next Challenge



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