

Mars Exploration

Problem

Submissions

Leaderboard

Discussions

A space explorer's ship crashed on Mars! They send a series of 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 the SOS message have been changed by radiation.

Example

$s = \text{'SOSTOT'}$

The original message was SOSSES. Two of the message's characters were changed in transit.

Function Description

Complete the `marsExploration` function in the editor below.

`marsExploration` has the following parameter(s):

- *string s*: the string as received on Earth

Returns

- *int*: the number of letters changed during transmission

Input Format

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

Constraints

- $1 \leq \text{length of } s \leq 99$
- $\text{length of } s \bmod 3 = 0$
- s will contain only uppercase English letters, `ascii[A-Z]`.

Sample Input 0

```
SOSSPSSQSSOR
```

Sample Output 0

```
3
```

Explanation 0

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

```
Expected signal: SOSSOSSOSSOS
Recieved signal: SOSSPSSQSSOR
Difference:      X  X  X
```

Sample Input 1

```
SOSSOT
```

Sample Output 1

```
1
```

Explanation 1

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

```
Expected Signal: SOSSOS
Received Signal: SOSSOT
Difference:      X
```

Sample Input 2

```
SOSSOSSOS
```

Sample Output 2

```
0
```

Explanation 2

Since no character is altered, return 0.



Contest ends in a day

Submissions: [326](#)

Max Score: 50

Difficulty: Easy

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```
1 #include <bits/stdc++.h>
2
3 using namespace std;
4
5 // Complete the marsExploration function below.
6 int marsExploration(string s) {
7
8
9 }
10
11 int main()
12 {
13     ofstream fout(getenv("OUTPUT_PATH"));
14
15     string s;
16     getline(cin, s);
17
```

```
18     int result = marsExploration(s);
19
20     fout << result << "\n";
21
22     fout.close();
23
24     return 0;
25 }
26
```

Line: 1 Col: 1



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Test against custom input

Run Code

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