Mars Exploration

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
$1 \le |S| \le 99$
$|S| \ \% \ 3=0$
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 1

```
SOSSPSSQSSOR
```

Sample Output 1

```
3
```

Sample Input 2

```
SOSSOT
```

Sample Output 2

```
1
```

Explanation

Sample 1

S = **SOSSPSSQSSOR**, and signal length $|S|=12$. Sami sent 4 `SOS` messages (i.e.: $12/3=4$).

Expected signal: **SOSSOSSOSSOS**
Recieved signal: **SOSS`P`SS`Q`SSO`R`**

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

Sample 2

S = **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.