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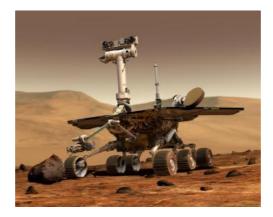
Sami's spaceship crashed on Mars! She sends n sequential SOS messages to Earth for help.

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

- $1 \leq |S| \leq 99$
- $|S| \% 3 = 0$
- 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
```

Explanation 0

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

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

We print the number of changed letters.

Sample Input 1

```
SOSSOT
```

Sample Output 1

```
1
```

Explanation 1

$s =$ **SOSSOT**, and signal length $|s| = 6$. Sami sent 2 SOS messages (i.e.: $6/3 = 2$).

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

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

Sample Input 2

```
SOSSOSSOS
```

Sample Output 2

```
0
```

Explanation 2

Since no character is altered, we print 0.