

# 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

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

Expected signal: **SOSSOSSOSSOS**

Received signal: **SOSSPSSQSSOR**

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

## Sample Input 1

```
SOSSOT
```

### Sample Output 1

1

### Explanation 1

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

Expected Signal: **SOSSOS**

Received Signal: **SOSSOT**

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.