

## New Words

Input file:            **standard input**  
Output file:         **standard output**  
Time limit:          1 second  
Memory limit:       256 megabytes

Given a string  $S$ . Print number of times that “**EGYPT**” word can be formed from  $S$ ’s characters.

**Note:** Case of the letters doesn’t matter. For example: “**Egypt**”, “**egypt**” and “**eGyPt**” are the same.

### Input

Only one line contains a string  $S$  ( $1 \leq |S| \leq 10^6$ ) where  $|S|$  is the length of the string and it consists of **lowercase** and **uppercase** English letters.

### Output

Print the answer required above.

### Examples

standard input	standard output
EgYpTaz	1
pemigdbeigyypetet	2