

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

### A. Word

time limit per test: 2 seconds  
memory limit per test: 256 megabytes  
input: standard input  
output: standard output

Vasya is very upset that many people on the Net mix uppercase and lowercase letters in one word. That's why he decided to invent an extension for his favorite browser that would change the letters' register in every word so that it either only consisted of lowercase letters or, vice versa, only of uppercase ones. At that as little as possible letters should be changed in the word. For example, the word `HoUse` must be replaced with `house`, and the word `ViP` — with `VIP`. If a word contains an equal number of uppercase and lowercase letters, you should replace all the letters with lowercase ones. For example, `maTRiX` should be replaced by `matrix`. Your task is to use the given method on one given word.

#### Input

The first line contains a word  $s$  — it consists of uppercase and lowercase Latin letters and possesses the length from 1 to 100.

#### Output

Print the corrected word  $s$ . If the given word  $s$  has strictly more uppercase letters, make the word written in the uppercase register, otherwise - in the lowercase one.

#### Examples

input	Copy
HoUse	
output	Copy
house	
input	Copy
ViP	
output	Copy
VIP	
input	Copy
maTRiX	
output	Copy
matrix	

#### → Attention

The package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, a solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then the value 800 ms will be displayed and used to determine the verdict.

#### Codeforces Beta Round #55 (Div. 2).

Finished

Practice



#### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

#### → Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

#### → Submit?

Language: 

Python 3.8.10

Almost always, if you send a solution on PyPy, it works much faster

Choose file: 

Choose File

 No file chosen

Submit

#### → Problem tags

implementation strings \*800  
No tag edit access

#### → Contest materials

- Announcement



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