URI Online Judge | 1234

## **Dancing Sentence**

By TopCoder\* USA

Timelimit: 1

A sentence is called dancing if its first letter is uppercase and the case of each subsequent letter is the opposite of the previous letter. Spaces should be ignored when determining the case of a letter. For example, "A b Cd" is a dancing sentence because the first letter ('A') is uppercase, the next letter ('b') is lowercase, the next letter ('C') is uppercase, and the next letter ('d') is lowercase.

## Input

The input contains several test cases. Each test case is composed by one line that contais a string sentence. This string will contain between 1 and 50 characters ('A'-'Z','a'-'z' or space ' '), inclusive, or at least, one letter ('A'-'Z','a'-'z').

## Output

Turn the sentence into a dancing sentence (like following examples) by changing the cases of the letters where necessary. All spaces in the original sentence must be preserved, ie, "sentence "must be converted in "SeNtEnCe".

Sample Input		Sample Output			
This is a dancing sentence		ThIs Is A	dAnCiNg S	eNtEnCe	
This is a	dancing	ThIs	Is	А	dAnCiNg
sentence		SeNtEnCe			
aaaaaaaaaa		AaAaAaAaA	aA		
z		Z			

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1 of 1 8/31/21, 09:53

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