Problem C. Dead Linguistics Society

Time limit   2000 ms

Mem limit   1048576 kB

Problem Statement

You have been recruited by the mysterious Linguistics Society, where members are obsessed with deciphering unique patterns in texts. One of the patterns they study is called a **hard-to-read** string. According to the society's rules, a string is deemed **hard-to-read** when:

- Characters in odd positions (such as the 1st, 3rd, 5th, ... from the beginning) are all lowercase English letters.
- Characters in even positions (such as the 2nd, 4th, 6th, ... from the beginning) are all uppercase English letters.

Your task is to determine whether a given string S adheres to the society's definition of a hard-to-read string.

Constraints

- S consists of uppercase and lowercase English letters.
- The length of S is between 1 and 1000 (inclusive).

Input

Input is given from Standard Input in the following format:

S

Output

If S is hard-to-read, print `Yes`; otherwise, print `No`.

Sample 1

Input	Output
dIfFiCuLt	Yes

Sample 2

Input	Output
eASY	No

Sample 3

Input	Output
a	Yes