

April 26–30, Palanga

friends • EN

#### Friends

Pepe, Repe and Sepe are three friends. First Pepe chooses a string. Then Repe constructs a new string that consists of two copies of the original string. Finally Sepe adds one letter somewhere to the string.

#### Task

You are given the final string and your task is to reconstruct the original string

# Input

The only input line contains the final string. It consists of letters uppercase latters A . . . Z.

## Output

Your program should print the original string. However, if the original string is not unique, you should print NOT UNIQUE.

### Examples

Input	Output
ABXCABC	ABC

Input	Output
ABABABA	ABA

Input	Output
ABABABABA	NOT UNIQUE

# Scoring

Finalize subtasks

Subtask 1 (X points): The length of the original string is at most 1000 letters.

Subtask 2 (X points): The length of the original string is at most 100 000 letters.

#### Constraints

Finalize limits.

Time limit: 1 s.

Memory limit: 256 MB.