

Pangrams

Roy wanted to increase his typing speed for programming contests. His friend suggested that he type the sentence "The quick brown fox jumps over the lazy dog" repeatedly. This sentence is known as a *pangram* because it contains every letter of the alphabet.

After typing the sentence several times, Roy became bored with it so he started to look for other pangrams.

Given a sentence, determine whether it is a pangram.

Input Format

Input consists of a string s .

Constraints

Length of s can be at most 10^3 ($1 \leq |s| \leq 10^3$) and it may contain spaces, lower case and upper case letters. Lower-case and upper-case instances of a letter are considered the same.

Output Format

Output a line containing *pangram* if s is a pangram, otherwise output *not pangram*.

Sample Input

Input #1

We promptly judged antique ivory buckles for the next prize

Input #2

We promptly judged antique ivory buckles for the prize

Sample Output

Output #1

pangram

Output #2

not pangram

Explanation

In the first test case, the answer is *pangram* because the sentence contains all the letters of the English alphabet. The second sentence does not.