B. *n* Base Palindrome

Program:	palindrome.(cpp|java|py)
Input:	palindrome.in
Balloon Color:	Red

Description

A palindrome is a number that has the same value when its digits are reversed. 1, 101, and 33 etc., are examples of palindromes, while 52, 122, and 12 are not. While some numbers might not be palindromes in decimal, they can be palindromes in other bases. Given a number in decimal, and a number base, state if the given number is a palindrome in that base or not.

Example

23 is not palindrome, however, when converted into base 3 it becomes: 212 which is palindrome.

Input

The input consists of several test cases, each test case, has two integers, a number *n* in decimal, and a number base *b* in decimal. Input is terminate by 0 0.

1 ≤ n ≤ 1000000, 2 ≤ b ≤ 1000000

Output

For each sequence, you are to output Yes if palindrome, No if not.

Sample Input / Output

palindrome.in
```
52 10
33 10
33 8
23 3
20 16
5 2
0 0
```

OUTPUT
```
No
Yes
No
Yes
No
Yes
```