



Mirror base

- Time limit: 2 seconds
- Memory limit: 256 MB

Write a program that takes three inputs in order a b c received so that a is a number in the base b and c is the basis is the number that must be calculated: that is:

$$(a)_b = (x)_c$$

Note: Be sure to implement the base conversion in a separate function.

then if x is palindrome (mirror) to print YES And otherwise NO .

A number is called a palindrome or a mirror if it is equal to its inverse, for example, 121 is a mirror, but 132 is not.

Note: Be sure to implement checking whether the number is palindrome or not in a separate function.



Questions

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Training - functions

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Tutorial - Recursive function

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Mirror base

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Phi function

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(GCPD - (One-liner

150

Number to the old to the
!!first prophet

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Input

In the first line of the number a , in the second line of the number b And in the third line of the number c it will be given to you.

$$1 \leq a \leq 10^6$$

$$2 \leq C_b \leq 10$$

Output

In a single line statement YES or NO _print the

Example

Sample input

```
505
6
7
```

Sample output

```
YES
```

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