

Samuel's Palindrome

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

points: 100 · problem code: sameulspalindrome · author: Parsa

Everyone please welcome Samuel M to MAPS. He loves to paint!

Input

The first line contains a single integer n .

Output

Output YES if the number n is palindrome, otherwise print NO.

Constraints

$$1 \leq n \leq 10^9$$

Example 1

Input

5

YES

Example 2

Input

6

NO

Example 3

Input

19

YES

Example 4

Input

121

NO