

SPECIAL NUMBER

A special number is a natural number with at least 3 digits that is divisible by the number formed by its first and last digits. Given an integer **N** ($0 \leq N \leq 10^{18}$), check if N is a special number or not?

Input

a positive integer **N**

Output

YES if N is a special number, **NO** otherwise

Example

Input:

108

Output:

YES

Input:

111

Output:

NO