Problem C. Lucky Division

Time limit	2000 ms
Mem limit	262144 kB
Input file	stdin
Output file	stdout

Petya loves lucky numbers. Everybody knows that lucky numbers are positive integers whose decimal representation contains only the lucky digits **4** and **7**. For example, numbers **47**, **744**, **4** are lucky and **5**, **17**, **467** are not.

Petya calls a number almost lucky if it could be evenly divided by some lucky number. Help him find out if the given number n is almost lucky.

Input

The single line contains an integer n ($1 \le n \le 1000$) — the number that needs to be checked.

Output

In the only line print "`YES`" (without the quotes), if number n is almost lucky. Otherwise, print "`NO`" (without the quotes).

Examples

Input	Output
47	YES

Input	Output
16	YES

Input	Output
78	NO

Note

Note that all lucky numbers are almost lucky as any number is evenly divisible by itself.

In the first sample 47 is a lucky number. In the second sample 16 is divisible by 4.