A number is considered **lucky** if it contains only the digits **4** and **7**. For example, numbers like 4, 7, 44, 47, 74, and 77 are lucky, while 5, 17, and 467 are not.

Given a positive integer  $\mathbf{n}$ , determine whether  $\mathbf{n}$  is a lucky number or if it is divisible by at least one lucky number.

### Input

A single line containing a positive integer  $\mathbf{n}$  (1  $\leq$  n  $\leq$  10^12).

### Output

Print "YES" if **n** is a lucky number or if **n** is divisible by at least one lucky number. Otherwise, print "N0".

#### **Subtasks**

```
• Subtask 1 (30 points):
```

```
0.01 \le n \le 10^4
```

• Subtask 2 (70 points):

```
0.1 \le n \le 10^{12}
```

## **Examples 1**

Input:

47

Output:

YES

# Examples 2

Input:

16

Output:

NO