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 **n**, determine whether **n** is a lucky number or if it is divisible by at least one lucky number.

### **Input**

A single line containing a positive integer **n** (1 ≤ n ≤ 10^12).

### **Output**

Print "YES" if **n** is a lucky number or if **n** is divisible by at least one lucky number. Otherwise, print "NO".

### **Subtasks**

* **Subtask 1 (30 points):**
  + 1 ≤ n ≤ 10^4
* **Subtask 2 (70 points):**
  + 1 ≤ n ≤ 10^12

### **Examples 1**

Input:

47

Output:

YES

### **Examples 2**

Input:

16

Output:

NO