# **Problem T. Nearly Lucky Number**

**Time limit** 2000 ms **Mem limit** 262144 kB

<u>Petya loves lucky numbers. We all know that lucky numbers are the positive integers whose decimal representations contain only the lucky digits 4 and 7. For example, numbers 47, 744, 4 are lucky and 5, 17, 467 are not.</u>

Unfortunately, not all numbers are lucky. Petya calls a number  $\underline{nearly\ lucky}$  if the number of lucky digits in it is a lucky number. He wonders whether number n is a nearly lucky number.

#### Input

The only line contains an integer n ( $1 \le n \le 10^{18}$ ).

Please do not use the %lld specificator to read or write 64-bit numbers in C++. It is preferred to use the cin, cout streams or the %I64d specificator.

#### Output

Print on the single line "YES" if n is a nearly lucky number. Otherwise, print "NO" (without the quotes).

## Sample 1

Input	Output
40047	NO

### Sample 2

Input	Output
7747774	YES

### Sample 3

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	Input	Output
100	9000000000000000	NO

#### Note

In the first sample there are 3 lucky digits (first one and last two), so the answer is "NO". In the second sample there are 7 lucky digits, 7 is lucky number, so the answer is "YES". In the third sample there are no lucky digits, so the answer is "NO".