

# Problem T. Nearly Lucky Number

**Time limit** 2000 ms

**Mem limit** 262144 kB

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.

Unfortunately, not all numbers are lucky. Petya calls a number 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  $n$  ( $1 \leq n \leq 10^{18}$ ).

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

## 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

Input	Output
1000000000000000000	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".