B. Tavas and SaDDas

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

Once again Tavas started eating coffee mix without water! Keione told him that it smells awful, but he didn't stop doing that. That's why Keione told his smart friend, SaDDas to punish him! SaDDas took Tavas' headphones and told him: "If you solve the following problem, I'll return it to you."

The problem is:

You are given a *lucky number* n. *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.

If we sort all lucky numbers in increasing order, what's the 1-based index of n?

Tavas is not as smart as SaDDas, so he asked you to do him a favor and solve this problem so he can have his headphones back.

Input

The first and only line of input contains a lucky number n ($1 \leq n \leq 10^9$).

Output

Print the index of n among all lucky numbers.

Examples

input
4
output
1

input
7
output
2

input
77
output
6