

AWESOME Number

We say a number is AWESOME if it is prime and has 1 in its ones place. You are given a number N and you are asked to answer how many AWESOME numbers are not greater than N.

Input

The input consists of a single integer N ($1 \leq N \leq 20,000,000$).

Output

You should print **one line** containing a single integer, the number of awesome numbers that are no larger than N.

Example 1

Input :

6

Output :

0

Example 2

Input :

11

Output :

1

Example 3

Input :

100

Output :

5