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.

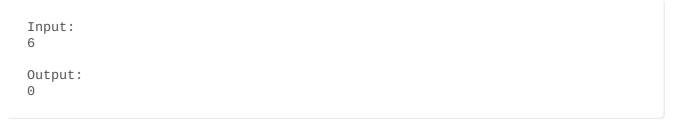
Input

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



Example 2

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Input:
11
Output:
1
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Example 3

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Input:
100
Output:
5
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