

You are given a number N and check if this number is a prime or not. If this number is prime then print 1, otherwise print 0

.

Input:

- First-line will contain the number N
- .

Output:

Print the answer in the new line.

Constraints

- $1 \leq N \leq 10^9$
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Sample Input 1:

6

Sample Output 1:

0

Sample Input 2:

5

Sample Output 2:

1

EXPLANATION:

- In the first example, 6 is not a prime.
- In the second example, 5 is a prime.