

Prime Number

75 POINTS

Given an integer N check if it is a prime number.
Follow up: Can you solve the same problem in \sqrt{N} time complexity?

Input format:
A single line of input containing the value of N

Output format:
TRUE if N is a prime number FALSE otherwise

Constraints:
(i) $2 \leq N \leq 10^9$

Test Case - 1
11
TRUE

Test Case - 2
17
TRUE

Test Case - 3
4
FALSE

Problem tags:

THE COMPLETE C COURSE EASY