# **Prime Again**

### <u>English</u> <u>Vietnamese</u>

In this problem, you have to find the nearest prime number smaller than N. (3  $\leq$  N  $\leq$  2^32)

### Input

The first line contains an integer T specifying the number of test cases. (T <= 10000)

T lines follow, each line contains an integer N.

# **Output**

For each test case, output the result on one line.

# **Example**

#### Input:

3

5

10 17

#### **Output:**

3

7

13