

Problem 5: Prime Number

Description:

Finding out whether a given number is prime or not.

Input Format:

- The first line of the input contains a single integer **T** denoting the number of test cases. The description of **T** test cases follows.
- The new line of each test case contains a single integer **P**.

Output Format:

For each test case, print a single line containing a string – “Prime” or “Not a Prime”

Constraints:

- $1 \leq T \leq 10^3$
- $1 \leq P \leq 10^{200}$

Example Input:

- 3
- 2
- 5
- 9

Example Output:

- Prime
- Prime
- Not a Prime