

CTS_Level2_010

Write a Program to check whether the given number is prime or not..

Input Format

First line tells the number of test cases and the following lines contain the numbers to check for prime

Constraints

$2 \leq \text{num} \leq 1000000000000000007$

Output Format

Print PRIME or NOT PRIME

Sample Input 0

```
5
9127
6856
8221
2354
5099
```

Sample Output 0

```
PRIME
NOT PRIME
PRIME
NOT PRIME
PRIME
```