

# Prime

Bibi was given an assignment by her teacher. Bibi's teacher gives T positive integers and for each positive integer, Bibi has to determine whether the number is a prime number or not.

#### Format Input

The input consists of an integer T which indicates the number of test cases. The next T line contains positive integers N given by the teacher.

#### Format Output

For each test case, the output begins with "Case #X:" where X is the test case number and the output consists of only two types, namely "Case #X: prime" if the number is a prime number and "Case #X: not prime" if the number is not a prime number.

#### Constraints

- $1 \le T \le 100$
- $1 \le N \le 10^9$

# Sample Input 1 (standard input)

1 5

# Sample Output 1 (standard output)

Case #1: prime

# Sample Input 2 (standard input)

1

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# Sample Output 2 (standard output)

Case #1: not prime



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Bibi diberikan tugas oleh gurunya. Guru Bibi memberikan T buah bilangan bulat positif dan untuk setiap bilangan bulat positif tersebut Bibi harus menentukan apakah angka tersebut merupakan bilangan prima atau bukan.

#### Format Input

Input terdiri dari sebuah bilangan bulat T yang menunjukkan banyaknya kasus uji. T baris berikutnya berisi bilangan bulat positif N yang diberikan oleh gurunya.

#### Format Output

Untuk setiap kasus uji, output dimulai dengan "Case #X: " dimana X adalah nomor kasus uji dan output hanya terdiri dari dua jenis, yaitu "Case #X: prime" jika angka tersebut adalah bilangan prima dan "Case #X: not prime" jika angka tersebut bukanlah bilangan prima.

#### Constraints

- 1 < T < 100
- $1 \le N \le 10^9$

#### Sample Input 1 (standard input)

1 5

# Sample Output 1 (standard output)

Case #1: prime

# Sample Input 2 (standard input)

1

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# Sample Output 2 (standard output)

Case #1: not prime



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