

# Interesting Array



Suppose, there is an array of square numbers. Let the array  $A = \{ 1, 4, 9, 16, 25, \dots, 10^{10} \}$ . This array may not be sorted.

## **Input:**

There are  $Q$  queries. In every query you are given an integer  $n$ .

## **Output:**

For every query you have to count the numbers of elements in the array such that every element is less than  $n$ .

## **Input Format**

```
3
100000000000
1
2
```

## **Constraints**

1.  $1 \leq Q \leq 10^4$
2.  $1 \leq n \leq 10^{10}$

## **Output Format**

```
99999
0
1
```

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