# Check if a number is Perfect Square

Given a natural number n, print 1 if it is perfect square else 0.

#### **Input:**

The first line of input contains an integer T denoting the number of test cases. The first line of each test case is N, N is the number to be checked whether perfect square or not.

# **Output:**

1 if it is perfect square else 0

#### **Constraints:**

1 <= T <= 30 1 <= N <= 100000

### **Example:**

## **Input:**

3

100

10

125

## **Output:**

1

0

0