# **Artificium**

#### **Partition Numbers**

Runtime Limit - 3s

# **Problem Statement**

You must determine the **partition number** for a given integer n. The partition number p(n) represents the number of **different ways** n can be expressed as a **sum of positive integers**, irrespective of the order of addends.

## **Format**

#### **Input**

**Line 1:** An integer T representing the number of test cases.

**Next T lines:** An integer n for which you need to find the partition number.

#### **Output**

**T lines:** For each test case, an integer representing the partition number p(n).

# **Constraints**

```
1 \le T \le 15
```

 $0 \le n \le 100$ 

# Sample

#### Input

1

3

### **Output**

3