## **HackerRank**

# Project Euler #77: Prime summations

This problem is a programming version of Problem 77 from projecteuler.net

It is possible to write ten as the sum of primes in exactly five different ways:

$$7+3$$
 $5+5$ 
 $5+3+2$ 
 $3+3+2+2$ 
 $2+2+2+2+2$ 

You are given  $N_i$ , in how many ways can N be written as sum of 1 or more primes?

### **Input Format**

First line of the input contains T, which is number of testcases. Each testcase contains N.

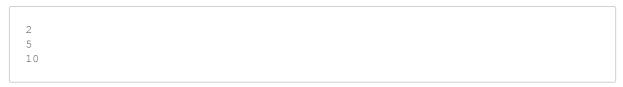
#### **Constraints**

$$1 \le T \le 100$$
$$2 \le N \le 1000$$

## **Output Format**

Print the output corresponding to each testcase on a new line.

## **Sample Input**



## **Sample Output**

```
2 5
```