# Project Euler #77: Prime summations



#### **Problem Statement**

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, 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.

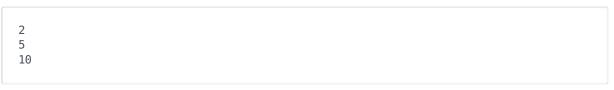
#### **Constraints**

$$\begin{array}{l} 1 \leq T \leq 100 \\ 2 \leq N \leq 1000 \end{array}$$

## **Output Format**

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

### **Sample Input**



# **Sample Output**

