# **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, in how many ways can N be written as sum of 1 or more primes?

# **Input Format**

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

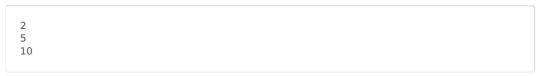
### **Constraints**

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

## **Output Format**

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

# **Sample Input**



# **Sample Output**

2			
5			