

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:
$$\begin{array}{l} 7 + 3 \\ 5 + 5 \\ 5 + 3 + 2 \\ 3 + 3 + 2 + 2 \\ 2 + 2 + 2 + 2 + 2 \end{array}$$

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

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

Output Format

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

Sample Input

```
2
5
10
```

Sample Output

```
2
5
```