# 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:

$$
\begin{aligned}
& 7+3 \\
& 5+5 \\
& 5+3+2 \\
& 3+3+2+2 \\
& 2+2+2+2+2
\end{aligned}
$$

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

## Sample Output

5

