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The Virtual Learning Environment for Computer Programming

## Omgillas

P16100_en
Segon Concurs de Programació de la UPC - Segona Semifinal (2004-09-15)
Recent excavations have discovered the rests of an extincted race of pseudo-human primates called Omgillas (not to mistake for gorillas). Among other curiosities, they eated raw fish, slept at least twelve hours a day, and shaved their heads twice a year.
On the other hand, they must knew some basic mathematics, since they used coins with prime values: $2,3,5,7,11,13,17,19,23$ and 29. This strange choice (for instance, there was no way to buy something of value 1 without change) and the fact that Omgillas were a bit silly caused a lot of confusion and their eventual extintion.
The sistem of coins of Omgillas is original enough to be investigated. Unfortunately, current humans are not much more intelligent. Therefore, a program that helps with this task would be welcome. Take into account that the coins were quite big and heavy, so only a few could be used in each transaction. It is known that the strongest Omgilla, the mythical warrior Obok-Aman, was able to carry just 20 coins.

To sumarize: Write a program such that, given a number of coins $c$ and a value $v$, prints the number of different ways to get an amount of $v$ with exactly $c$ coins. Assume an infinite suply of coins of every kind: $2,3,5, \ldots, 29$.

## Input

Input begins with the number of cases $n$, followed by $n$ pairs of natural numbers $c$ and $v$. Assume $1 \leq c \leq 20$ and $1 \leq v \leq 10^{6}$.

## Output

For every case, print the number of different ways to get a value $v$ with exactly $c$ coins.

## Sample input

2
311
10100

## Sample output

2
947

## Problem information

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Generation : 2024-04-30 15:55:21
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