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The Virtual Learning Environment for Computer Programming

2048 P81018_en

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This problem is somehow inspired by the well known 2048 game. Here, you are given a collection of natural numbers between 1 and 2048. The only allowed operation is to pick any two equal numbers, remove them from the collection, and add their sum to the collection. You win if you manage to get exactly the number 2048 after zero or more operations.

Given a sequence of n numbers, consider all the subsequences of consecutive numbers in it. How many of them have a collection of numbers for which you can win?

Input

Input consists of several cases, each one with n followed by n natural numbers between 1 and 2048. Assume $1 \le n \le 10^4$.

Output

For every case, print the number of winnable subsequences.

Sample input								Sample output
1	2048							1
2	2000	2000						0
7	2.048	512 42	1024	512	2.3	1024		12

Problem information

Author: Salvador Roura

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