## Problem A. Coins 2

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 1 second |
| Memory limit: | 512 megabytes |

In ICPCCamp, people usually use coins of values $1,2,3, \ldots, n$.
Bobo was very poor, he had only $a_{1}, a_{2}, a_{3}, \ldots, a_{n}$ coins of values $1,2,3, \ldots, n$, respectively. He bought an item of an unknown value without making change.
The unknown item was of non-negative integer value. Find the number of possible values it may have had.

## Input

The input contains zero or more test cases, and is terminated by end-of-file. For each test case:
The first line contains one integer $n(1 \leq n \leq 15)$.
The second line contains $n$ integers $a_{1}, a_{2}, \ldots, a_{n}\left(0 \leq a_{i} \leq 10^{9}\right)$.
It is guaranteed that the number of test cases does not exceed 100, and there is at most one test case where $n>10$.

## Output

For each test case, output an integer which denotes the number of possibilities.

## Example

|  |  | standard input |  | standard output |
| :--- | :--- | :--- | :--- | :--- |
| 3 |  | 6 | 12 |  |
| 0 | 1 | 2 |  |  |
| 0 | 2 | 3 |  |  |

