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The Virtual Learning Environment for Computer Programming

## Balance (2)

Novè Concurs de Programació de la UPC - Final (2011-09-21)
The statement of this problem is similar to that of problem P92795: "Balance (1)". But here, the $n$ weights do not need to be $2^{0}, 2^{1}, \ldots, 2^{n-1}$.
I.e., the problem is: Given $n$ weights, we have to place all the weights on a balance, one after another, in such a way that the right pan is never heavier than the left pan. Please compute the number of ways of doing this.

## Input

Input consists of several cases, each with the number of weights $n$ followed by $n$ different weights, all between 1 and $10^{6}$. Assume $1 \leq n \leq 8$.

## Output

For every case, print the number of correct ways of placing the weights on the balance. This number will never be larger than $10^{7}$.

```
Sample input
1 20
3
3 6 104
8
```

Sample output
1
15
17
2130717

## Problem information

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