

# Election

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## Description

Tomorrow is mayor election day in Wonderland.

There are  $n$  cities, and for each city  $i$ , there are  $m_i$  candidates for mayor.

Compute the number of possibilities for final result of election.

## Input

Your program is to read from standard input. In first line you are given the number of cities  $n$ , ( $1 \leq n \leq 18$ ). In next line you are given  $n$  integers  $m_1, m_2, \dots, m_n$ , ( $1 \leq m_i \leq 10$ ) separated by a space.

## Output

Your program is to write to standard output. Print the number of possibilities for final result of election.

## Sample

### Input

```
3
2 8 3
```

### Output

```
48
```