# Problem V. Modulo Summation

**Time Limit** 2000 ms
**Mem Limit** 1048576 kB

## Problem Statement

You are given $N$ positive integers $a_1, a_2, ..., a_N$.

For a non-negative integer $m$, let $f(m) = (m \ mod \ a_1) + (m \ mod \ a_2) + ... + (m \ mod \ a_N)$.

Here, $X \ mod \ Y$ denotes the remainder of the division of $X$ by $Y$.

Find the maximum value of $f$.

## Constraints

- All values in input are integers.
- $2 \leq N \leq 3000$
- $2 \leq a_i \leq 10^5$

## Input

Input is given from Standard Input in the following format:

```
N
a_1 a_2 ... a_N
```

## Output

Print the maximum value of $f$.

## Sample 1

| Input | Output |
| --- | --- |
| 3<br>3 4 6 | 10 |

$f(11) = (11 \ mod \ 3) + (11 \ mod \ 4) + (11 \ mod \ 6) = 10$ is the maximum value of $f$.

## Sample 2

| Input | Output |
| --- | --- |
| 5<br>7 46 11 20 11 | 90 |

## Sample 3

| Input | Output |
| --- | --- |
| 7<br>994 518 941 851 647 2 581 | 4527 |