

## Problem C: Count Equation Solutions

**Time Limit: 5 seconds**

### Description

Count the number of positive integer solutions to the following equation:

$$a_1 x_1 - a_2 x_2 + a_3 x_3 - a_4 x_4 + a_5 x_5 - a_6 x_6 = 0$$

where  $a_i$  are integer coefficients, and  $x_i$  are the variables such that  $1 \leq x_i \leq M$ .

### Input

A number of of inputs ( $\leq 600$ ) described as follows. The first line is  $M$  on a single line, followed by the 6 coefficients  $a_i$  on the next line. Constraint is  $1 \leq M \leq 100$  and  $0 < a_i \leq 1000000$ .

### Output

For each input, output the number of solutions on a single line.

### Sample Input

```
2
1 1 1 1 1 1
```

### Sample Output

```
20
```