

Four Multiples

time limit per test: 1 second (1 second for Python)
memory limit per test: 250 megabytes
input: standard input
output: standard output
points: 100 · problem code: fourmultiples

How many integers in $[1, n]$ are divisible by at least one of the four positive integers a, b, c , and d ?
Print the exact count (not modulo anything).

Input

A single line containing five integers n, a, b, c , and d .

Output

Print one integer: the number of integers in $[1, n]$ that are divisible by at least one of a, b, c , and d .

Constraints

- $1 \leq n \leq 10^{18}$
- $1 \leq a, b, c, d \leq 10^9$

Example 1

Input

```
10 2 3 5 7
```

Output

```
9
```

Explanation

The integers in $[1, 10]$ divisible by 2, 3, 5, or 7 are 2, 3, 4, 5, 6, 7, 8, 9, 10. Only 1 is missing.

Example 2

Input

```
1 2 3 4 5
```

Output

```
0
```

Explanation

The only candidate is 1, and none of 2, 3, 4, 5 divide 1.

Example 3

Input

```
100 2 2 2 2
```

Output

```
50
```

Explanation

All four moduli are 2, so the answer is the number of even integers in $[1, 100]$.