Not Fibonacci

The Fibonacci sequence is a sequence where each element in it is the sum of its two previous elements. Or, written formally:

$$F_n = F_{n-1} + F_{n-2}$$

Traditionally, the first two numbers in the Fibonacci sequence is 0 and 1, thus resulting in the sequence 0, 1, 1, 2, 3, 5, 8, ...

In this problem, you are asked to find F_K, given the first two numbers F_0 and F_1.

Format Input

The input consists of a line containing two integers F_0, and F_1, then followed by another line containing an integer K.

Format Output

Output a single number N, the Kth number in the Fibonacci sequence starting with F_0 and F_1.

Constraints

- $-10^3 \leq F_0, F_1 \leq 10^3$
- $1 \leq K \leq 30$

Sample Input 1 (standard input)

```
0 1
5
```

Sample Output 1 (standard output)

```
5
```

Sample Input 2 (standard input)

```
0 2
2
```

Sample Output 2 (standard output)

```
2
```

Sample Input 3 (standard input)

```
3 2
4
```

Sample Output 3 (standard output)

```
12
```

Not Fibonacci

Deret Fibonacci adalah deretan angka dimana setiap elemen merupakan hasil penjumlahan dari dua elemen sebelumnya. Atau, secara formal:

$$F_n = F_{n-1} + F_{n-2}$$

Secara tradisional, dua angka pertama di deret Fibonacci adalah 0 dan 1, yang kemudian menghasilkan deret 0, 1, 1, 2, 3, 5, 8, ...

Di soal ini, kamu diminta mencari F_K, jika diberikan dua angka pertama F_0 dan F_1.

Format Input

Input terdiri dari sebuah baris berisi dua angka F_0 dan F_1, kemudian diikuti sebuah baris berisi satu angka K.

Format Output

Tampilkan sebuah angka N, angka ke-K di deret Fibonacci yang dimulai dengan F_0 dan F_1.

Constraints

- $-10^3 \leq F_0, F_1 \leq 10^3$
- $1 \leq K \leq 30$

Sample Input 1 (standard input)

```
0 1
5
```

Sample Output 1 (standard output)

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5
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Sample Input 2 (standard input)

```
0 2
2
```

Sample Output 2 (standard output)

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2
```

Sample Input 3 (standard input)

```
3 2
4
```

Sample Output 3 (standard output)

```
12
```