We define a *modified Fibonacci sequence* using the following definition:

Given terms and where , term is computed using the following relation:

For example, if term and , term , term , term

, and so on.

Given three integers , , and , compute and print term of our *modified Fibonacci sequence*.

**Note:** The value of may exceed the range of a 64-bit integer. Since the value will always be non-negative, it will be wise to use the “unsigned long long” datatype. Another smart strategy would be to mod each term of the formula by the macro “ULLONG\_MAX”.

**Input**

A single line of three space-separated integers describing the respective values of , , and . Here:

* may exceed the range of a 64-bit integer

**Output**

Print a single integer denoting the value of term in the modified Fibonacci sequence where the first two terms are and .

|  |  |
| --- | --- |
| **Sample Input** | **Sample Output** |
| 0 1 5 | 5 |