B

# **Just want the result**

```
#include<stdio.h>
int foo(int a, int b) {while(a>=b)a-=b;;return a;}
int main() {
   int a , k , n , result;
   while( scanf("%d%d%d" , &a , &k , &n)!=EOF ) {
      a = foo(a,n) , result = 1 , foo(a,k);
      while(k--) result*=a,result=(n&(n-1))?(foo(result,n)):((result)&(n-1));
      printf("%d\n" , result);
   }
   return 0;
}
```

## Input

Each line of input consists of three numbers, a, k, n. They are coresponding to variable names inside the code above.

The constriant:  $0 \le a < 65536$ ,  $0 \le k \le 2147483647$ ,  $0 \le a < 65536$ 

The input file terminates with EOF.

## **Output**

For each test case, output what the above code outputs.

### **Sample Input**

### **Output for Sample Input**

```
1 2 3
66 2147483647 64
0
```

Do not submit the above code directly.