# Flower growing

#### English <u>Tiếng Việt</u>

The farmer AnhDQ grows flower in his MxN garden (M rows and N columns). He wants to grow flower satisfying that: Each row of the garden has at least k color(s) of flower; and he has 7 types of flower: red, orange, yellow, green, blue, indigo, and violet to use.

### Request

Count the number of ways to grow flower on his garden.

### Input

- Contains several lines, there are three number M, N, k on each.

#### **Output**

- Contains the answer for each line of Input, mod 2370823708, written on separate lines.

## **Example**

Input:

177

#### **Output:**

5040

#### Limitations

- $1 \le M$ ,  $N \le 10^{15}$ .
- The number of lines in Input does not exceed 5000.