

Problem A. Balls

Input file: `balls.in`
Output file: `balls.out`
Time limit: 1 second
Memory limit: 256 megabytes

There are N balls painted with not more than to M colours in a basket. Colours are numbered by integers from 1 to M , i -th ball is painted in colour C_i . Somebody performs the following sequence of steps K times:

1. take a ball out of the basket;
2. write its colour number on a sheet of paper;
3. throw this ball away.

You must count the number of different number sequences which can be written.

Input

First line of input file contains integer numbers N , M and K ($1 \leq N \leq 200$, $1 \leq M \leq N$, $1 \leq K \leq N$). On the next line there are N integer numbers: C_1, \dots, C_n ($1 \leq C_i \leq M$). All numbers in lines are separated by spaces.

Output

Output file must contain one integer number without leading zeroes — answer for the task.

Example

<code>balls.in</code>	<code>balls.out</code>
5 2 3 1 2 1 2 2	7

Sequences that may appear: (1,1,2), (1,2,1), (2,1,1), (1,2,2), (2,1,2), (2,2,1), (2,2,2).