Build Array Where You Can Find The Maximum Exactly K Comparisons

You are given three integers n, m and k. Consider the following algorithm to find the maximum element of an array of positive integers:

```
maximum_value = -1
maximum_index = -1
search_cost = 0
n = arr.length
for (i = 0; i < n; i++) {
    if (maximum_value < arr[i]) {
        maximum_value = arr[i]
        maximum_index = i
        search_cost = search_cost + 1
    }
}
return maximum_index
```

You should build the array arr which has the following properties:

- arr has exactly n integers.

- 1 <= arr[i] <= m where (0 <= i < n).

- After applying the mentioned algorithm to arr, the value search_cost is equal to k.

Return *the number of ways* to build the array arr under the mentioned conditions. As the answer may grow large, the answer **must be** computed modulo 10^9 + 7.

Example 1:

Input: n = 2, m = 3, k = 1

Output: 6

Explanation: The possible arrays are [1, 1], [2, 1], [2, 2], [3, 1], [3, 2] [3, 3]

Example 2:

Input: n = 5, m = 2, k = 3

Output: 0

Explanation: There are no possible arrays that satisify the mentioned conditions.

Example 3:

Input: n = 9, m = 1, k = 1

Output: 1

Explanation: The only possible array is [1, 1, 1, 1, 1, 1, 1, 1, 1]

Constraints:

- $1 <= n <= 50$
- $1 <= m <= 100$
- $0 <= k <= n$