You have n dice, and each dice has k faces numbered from 1 to k.

Given three integers n, k, and target, return *the number of possible ways (out of the* kn *total ways)* *to roll the dice, so the sum of the face-up numbers equals* target. Since the answer may be too large, return it **modulo** 109 + 7.

**Example 1:**

Input: n = 1, k = 6, target = 3  
Output: 1  
Explanation: You throw one die with 6 faces.  
There is only one way to get a sum of 3.

**Example 2:**

Input: n = 2, k = 6, target = 7  
Output: 6  
Explanation: You throw two dice, each with 6 faces.  
There are 6 ways to get a sum of 7: 1+6, 2+5, 3+4, 4+3, 5+2, 6+1.

**Example 3:**

Input: n = 30, k = 30, target = 500  
Output: 222616187  
Explanation: The answer must be returned modulo 109 + 7.

**Constraints:**

* 1 <= n, k <= 30
* 1 <= target <= 1000