

## nCr

Given two integers  $n$  and  $r$ , find  ${}^nC_r$ . Since the answer may be very large, calculate the answer modulo  $10^9+7$ .

### Example 1:

**Input:**  $n = 3, r = 2$

**Output:** 3

**Explanation:**  ${}^3C_2 = 3$ .

### Example 2:

**Input:**  $n = 2, r = 4$

**Output:** 0

**Explanation:**  $r$  is greater than  $n$ .

### Your Task:

You do not need to take input or print anything. Your task is to complete the function **nCr()** which takes  $n$  and  $r$  as input parameters and returns  ${}^nC_r$  modulo  $10^9+7$ .

**Expected Time Complexity:**  $O(n*r)$

**Expected Auxiliary Space:**  $O(r)$

### Constraints:

$1 \leq n \leq 1000$

$1 \leq r \leq 800$