









Problem: Week 2 - Compute C_k_n

Description

Given two positive integers k and n. Compute C(k,n) which is the number of ways to select k objects from a given set of n objects.

Input

• Line 1: two positive integers k and n (1 <= k,n <= 999)

Output

Write te value C(k,n) modulo 10^9+7 .

Example

Input

3 5

Output

10

Sample TestCase

1 Write your Source code here

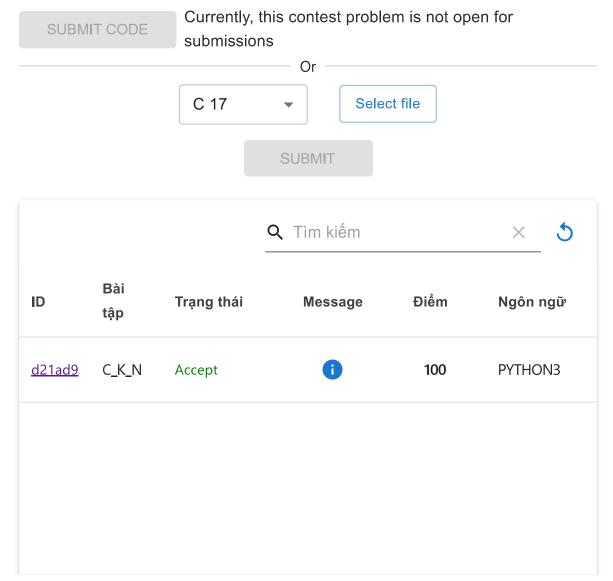
C 17

Source code

C 17

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```
1 //C
2 #include <stdio.h>
3
4 int main()
5 {
6
7 }
```



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