RAM - RAM

MATH

* (a + b)%k = (a%k + b%k)%k
* (a\*b)%k = (a%k\*b%k)%k
* (a - b)%k = (a%k -b%k +k)%k
* N+k-1 (C) K-1.
* in coding questions of top tech company OA and CP -> you will always require to calculate nCr % (big prime number) -> use this template for efficient calculation; assuming n,r<=100000 :  
  **always precalculate fact[1……100000] so you can avoid TLE;**
* -> Given two linear sequences of size N and M; find the number of ways to generate a sequence of N+M size; such that order of both the sequences remain the same;

-> [1 2]

-> [3 4]

-> 6 ways;

-> **n + m {C} m;**