## 187 §3- DISCRETE MATHEMATICS - Quiz 11

Instructor: Andrés E. Caicedo

November 29, 2011

Name \_

- 1. We distribute 8 (identical) ping-pong balls among 5 people. In how many ways can this be done? In how many ways can this be done if, in addition, each person must receive at least one ball?
- 2. Prove that for any positive integers n and m, the product

$$(n+1)(n+2)\dots(n+m)$$

is divisible by m!.