Casey Levy

CS 225: Discrete Structures in CS

Quiz – Week 8

<u>#3a.</u>

n = 3 different kinds of jelly beans, r = 6 chosen at random = 3^6

<u>b.</u>

$$C(10, 0) + C(10, 1) + C(10, 2) + C(10, 3)$$

<u>c.</u>

$$C(10,7) + C(10,8) + C(10,9) + C(10,10)$$

<u>#4.</u>

r = 20 coins to be chosen, n = 5 kinds of coins. C((20+5-1), 20) = C (24,20)

<u>#5a.</u>

$$C(7,3) = \frac{7!}{3!(7-3)!}$$

<u>b.</u>

$$C(6,4) \times C(7,3) + C(6,5) \times C(7,2) + C(6,6) \times C(7,1)$$