#### **Eric Rouse**

#### Individual Assignments #58

Assignment: Section 5.3: 6, 10, 12, 24, 26

#### **Q6**

- a) C(5,1) = 5!/(1!\*(5-1)!) = 5!/4! = 5
- b) C(5,3) = 10
- c) C(8,4) = 70
- d) C(8,8) = 1
- e) C(8,0) = 1
- f) C(12,6) = 924

# **Q10**

P(6) = 6! = 720

# **Q12**

- a) C(12,3) = 220
- b) C(12,3) + C(12,2) + C(12,1) + C(12,0) = 229
- c) C(12,12) + C(12,11) + C(12,10) + C(12,9) + C(12,8) + C(12,7) + C(12,6) + C(12,5) + C(12,4) = 3797
- d) C(12,6) = 924

# **Q24**

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NumWomen!\*P(NumSpaces,Nm)=10!\*P(11,6) = 1207084032000

### **Q26**

- a) C(13,10) = 286
- b) C(13,10) = 286
- c) C(10,9)\*C(3,1) = 30