1.) A basketball team has 12 players. How many ways can the coach select a captain, a co-captain, and an NCAA student representative from among her players?

2.) There are 6 men and 10 women from which a committee of 7 people must be chosen. How many different 7-person committees
   a.) are possible?
   b.) are possible if the committee must be made up of women only?
   c.) are possible if the committee must be made up of 5 men and 2 women?
   d.) are possible if Tarzan and Jane (2 of the 16 people)
      i.) must be together on the committee?
      ii.) refuse to serve on the committee?
      iii.) are not on the committee together?