CS161 Fall 16 homework 2
Due 3pm 10/21

name:
id:

Complete and show your work for the following:

1. How many permutations are there of the set {u, v, w, x, y, z} ?

2. Find the integer value of each of these quantities:
   a. C(7,4)

   b. C(5.3)

   c. C(5,5)

   d. C(7,0)

3. In how many different orders can 6 runners finish a race if no ties are allowed?

4. How many subsets with an even number of elements does a set with 9 elements have?

5. How many bit strings of length 9 have
    a. Exactly three 0s

    b. More 0s than 1s?

    c. At least seven 1s?

    d. At least 3 1s?

6. How many ways re there for 4 men and 7 women to stand in a line so that no two men stand next to each other?