CSC 172

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\* Lab time: MW 615-730

\* Lab number: Lab2Combinatorics

dhcp-10-4-12-44:src maxing$ javac Main.java

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1. How many ways can we paint three houses in any of four colors?

64.0

2. Suppose a computer password consists of eight to ten letters and/or digits. How many different passwords are there? Remember that an upper-case letter is different from a lower- case one.

8.5305479252018867E17

1. If we have 9 players for a baseball team, how many possible batting orders are there?

362880.0

1. In a class of 200 students, we wish to elect a President, Vice President, Secretary and Treasurer. In haw many ways can these four officers be selected?

1.5524388E9

2. How many ways are there to form a sequence of m letters out of the 26 letters, if no letter is allowed to appera more than once for (a) m=3, (b) m=5.

(a) 15600.0

(b) 7893600.0

In poker, each player is dealt five cards from a 52 card deck. How many different possible hands are there?

6.237504E7