## MATH 113: DISCRETE STRUCTURES WEDNESDAY WEEK 1 HANDOUT

Question 1. In how many distinct ways can the letters in the word MISSISSIPPI be arranged?

*Question* 2 (Monotonic paths, redux). In how many distinct ways can n-1 R's and k-1 U's be arranged? What does this have to do with monotonic paths on an  $n \times k$  grid?