

**MATH 113: DISCRETE STRUCTURES**  
**HOMEWORK DUE WEDNESDAY WEEK 2**

*Remark 1.* This is homework on the content covered Friday of Week 1. It is due Wednesday of Week 2. In general, homework on content delivered during course meeting  $n$  will be due at the start of course meeting  $n + 2$ . You are encouraged to start working on the homework shortly after course meeting  $n$  in order to have time to ask questions during office hours or via Piazza.

*Remark 2.* The letters *DM:EB* refer to our textbook, *Discrete Mathematics: Elementary and Beyond*.

*Remark 3.* Make sure to review the “Homework” portion of the syllabus before writing up your solutions!

*Problem 1.* Problem 1.1.2 of *DM:EB*.

*Problem 2.* In how many ways can King Arthur and his twelve knights sit down at the legendary Round Table in Camelot? (Since the table is round, we will not consider rotations of a given seating arrangement as different.)