This is a list of topics that may be included in Exam 2. This list is not exhaustive and is only intended to help you review.

Instructions for the upcoming exam:
1. You are allowed to bring one sheet of notes (8.5 x 11 one side)
2. This is a closed book exam. Do not confer with any other person. Do not use any computer equipment.
3. Show your work. Partial credit will be given. Grading will be based on correctness, clarity and neatness.
4. I suggest that you read the whole exam before beginning to work any problem. Budget your time wisely.

Topics:
1. Section 3.1: Algorithms and properties of algorithms.
2. Section 3.2: Big-O Notation
3. Section 3.3: The Complexity of Algorithms
   - How to measure time complexity as the number of operations executed?
4. Section 2.4: Sequences and Sums
   - Sequences
   - Recurrence relations
   - Solution of a recurrence relation
   - Summation
   - Change of Variable
5. Mathematical induction
   - Mathematical Induction