

## CSC320 Midterm 1 Overview

- (Q1, Q2, 3 parts each): True or false with very brief explanation. Topics include: Countability, languages, language operations, subsets of languages, regular languages, regular expressions, DFAs, NFAs
- (Q3, Q4): Short answer questions: Understanding of regular languages
- (Q5): Given a language, give a regular expression, DFA, and NFa (without formal conversion)
- (Q6): Create a DFA for a language
- (Q7): NFA to DFA conversion
- (Q8): Regular expression to NFA conversion
- (Q9): DFA to regular expression conversion (GNFA, removing states)
- (Q10): Pumping lemma proof