

Study Guide for Final COS130

The final will be given as a Canvas multiple choice quiz, similar to the midterm.

The content will include everything that was on the midterm guide, it is deliberately cumulative, plus:

Theory

What is an automata?

What kinds of automata are there?

What is a formal grammar?

What is the relationship between an automata and a grammar?

What is the Chomsky Hierarchy?

What is a Turing Machine?

AI

What is genetic programming?

What is the difference between genetic programming and genetic algorithm?

List the criteria a problem should meet to be a good candidate for a genetic approach

What is a cellular automata?

List some uses of cellular automata

Additional Programming Knowledge

Arrays, including 2 dimensional arrays

Switch statement

Constants

ArrayList

The for each version of the for loop

recursion

cast

promotion