

CSC 340 MIDTERM STUDY GUIDE

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It is possible there may be an open book part on the midterm, so bring your notes in case you need them.

There will be some questions on Big O, big Θ , Big Ω and algorithm analysis, but the majority of the midterm will focus on dynamic programming and the greedy approach. In particular, you should have a good understanding of all dynamic programming and greedy algorithms studied in class, and be able to work those algorithms by hand. Matrix multiplication, Knapsack problem, Longest Increasing subsequence, All pairs shortest paths, and minimums spanning trees.

Know the definitions and facts about graphs, adjacency matrices, trees, and spanning trees.

Be prepared to design a algorithm for problems similar to those studied in lecture and in homework problems.