ECE 3484 - Combinatorial Optimization

Evaluate greedy algorithms

Develop and implement a greedy algorithm for solving instances of your problem and evaluate it on the benchmarks. Use the most natural greedy algorithm for your problem at first. By evaluating the decisions that the algorithm makes, try to learn why the greedy algorithm does not always find the optimal solution. Find at least one small instance where it is clear that the greedy algorithm is not producing the optimal solution and discuss the mistakes it makes. Graph your results, showing the quality of the solutions (compared with the exhaustive solutions) as a function of instance size.