

Midterm Overview

Analysis of Algorithms

Topic

- Week 1
 - Induction
 - Complexity
- Week 2 & Week 3
 - Solving summations
 - Substution Method
 - Divide and Conquer
 - Masters Method
- Week 4
 - Decision Tree
 - Loop Invariants and Proof of Correctness

Topics

- Week 5
 - Heaps, Binomial Heaps, Fibonacci Heaps
- Week 6
 - MST, Kruskal, Plums

Test Questions

- There will be questions on every main topic.
 - For example
 - For example there will be a induction proof
 - There will be a “find the loop invariant & due the proof of correctness”
 - There will be a apply Masters Method.
- Weight the questions equal
 - Each week will be worth about 16%.
- Question difficulty will be between the quizzes and the homework.