## Recitation 8 (10/24- 10/28)

## **Midterm Solutions**

Go over any questions.

## **Greedy Algorithms**

Build final solution piece by piece Being short sighted on each piece (can't see the future and don't care) Never undo a decision

## **Interval Scheduling**

*Input:* n intervals, s(i) is the start time of each interval, f(i) is the finish time for each interval *Output:* valid schedule with the max # of intervals

valid - has no conflicts

conflict - intervals i and j conflict if they overlap in times

Go over the 4 examples of i and j overlapping

Talk about different ways	to	sort	the	algos	;
Chartest interval					

Counterexample of suboptimal:	
Earliest start time	
Counterexample of suboptimal:	

Conclude with the correct answer:

Sort all of the intervals by finish time & go over example on board.

Ex. Page 119 of textbook

If there is extra time, go over Minimizing Max Lateness