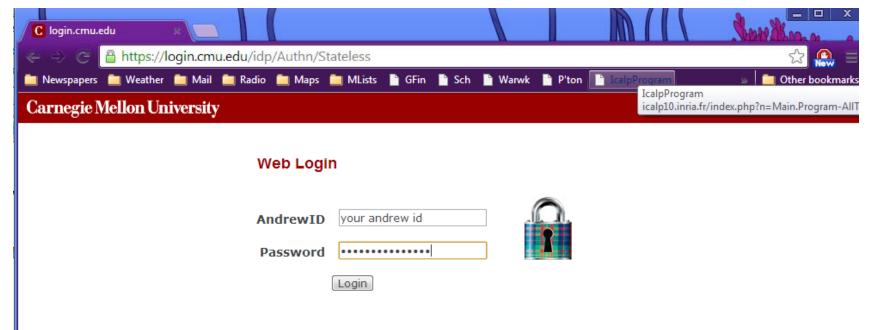
# Minis for 15-451/651

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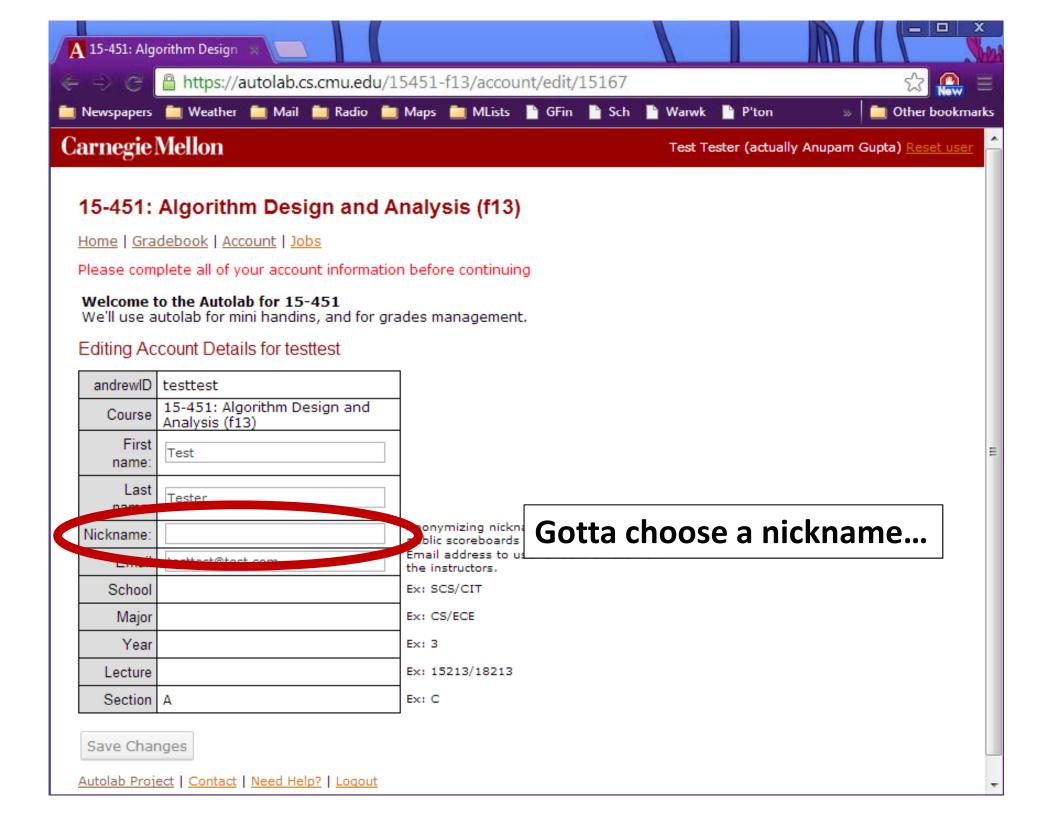
will also contain grades for HWs/exams

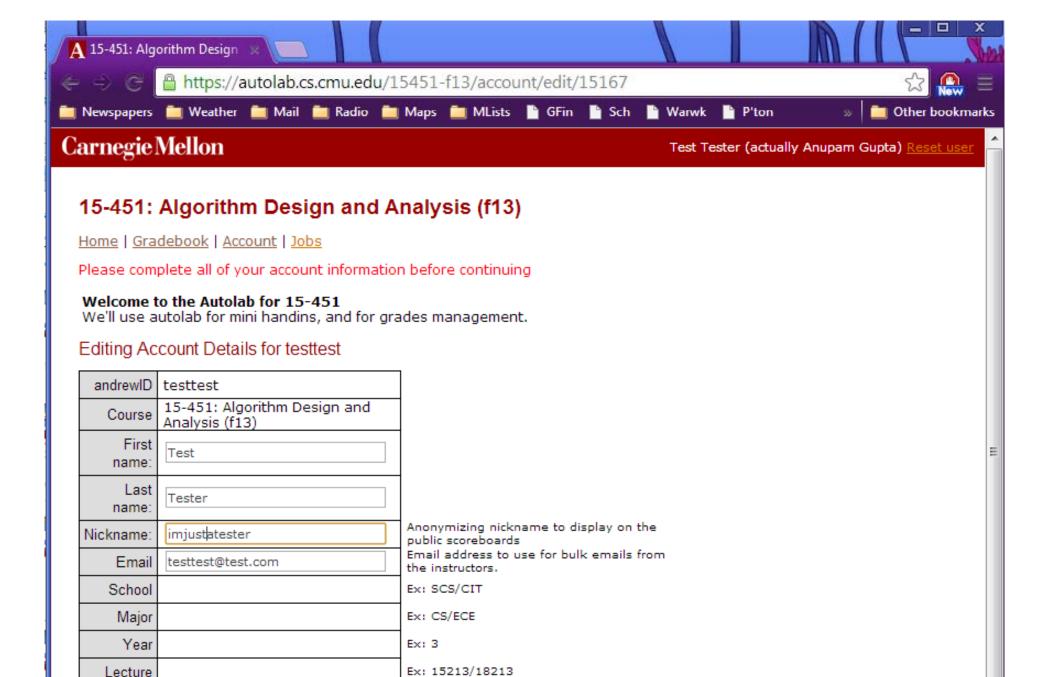


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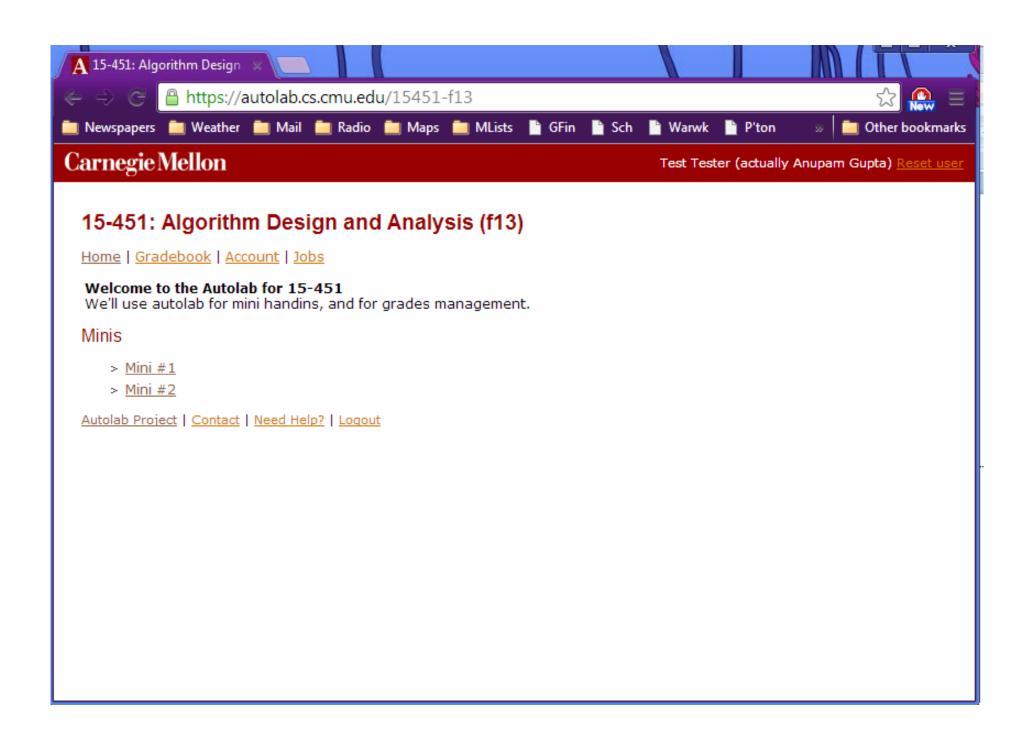


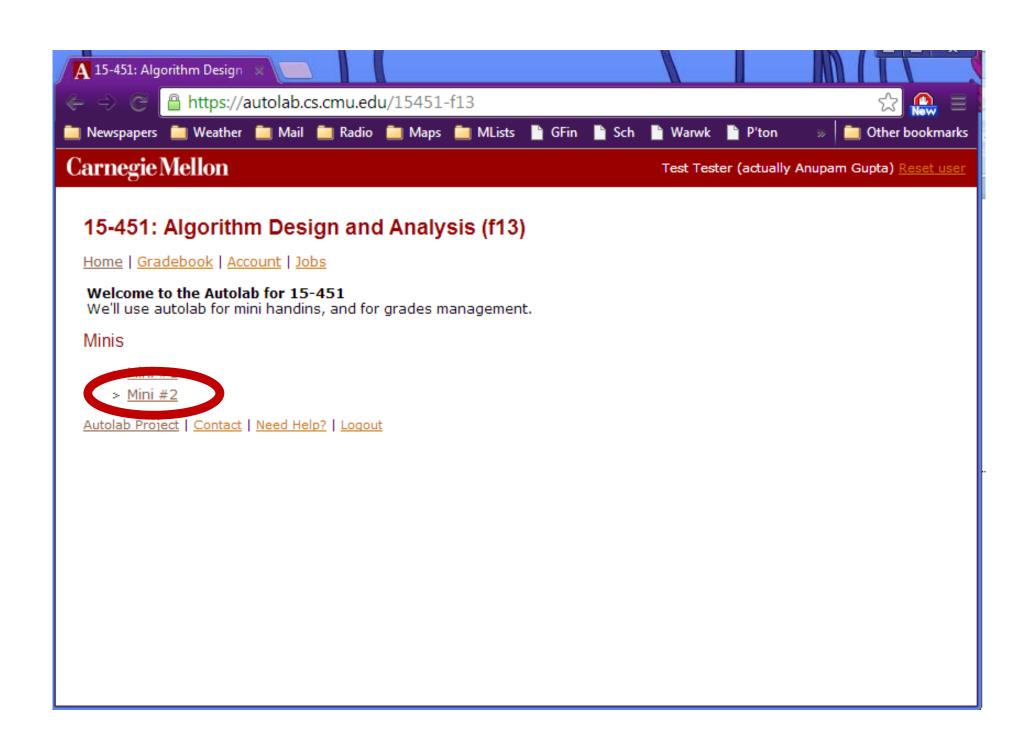


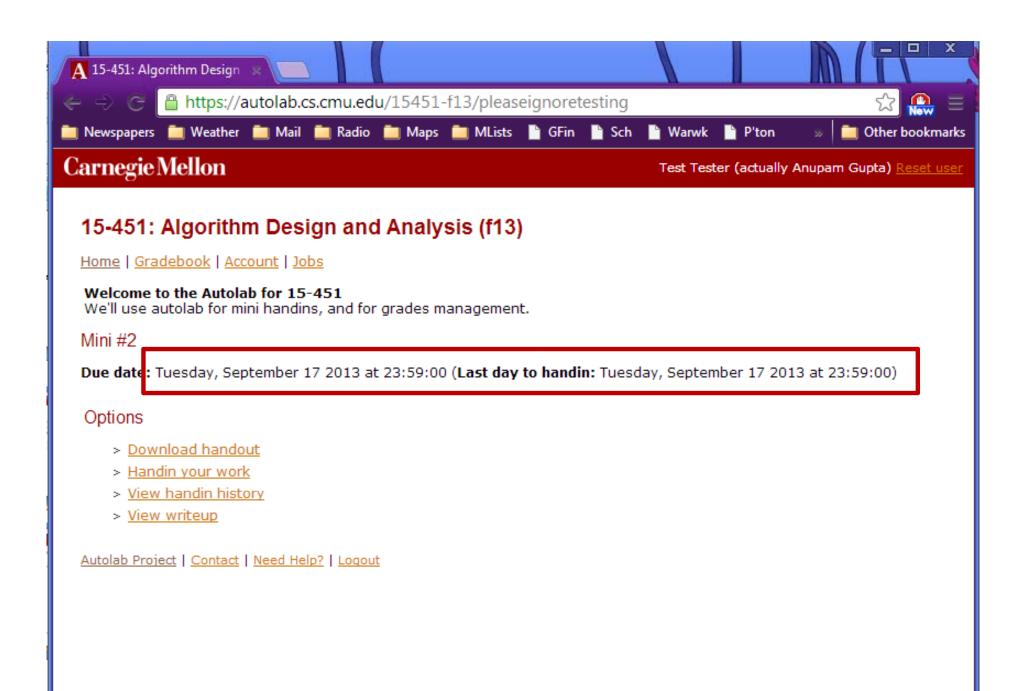
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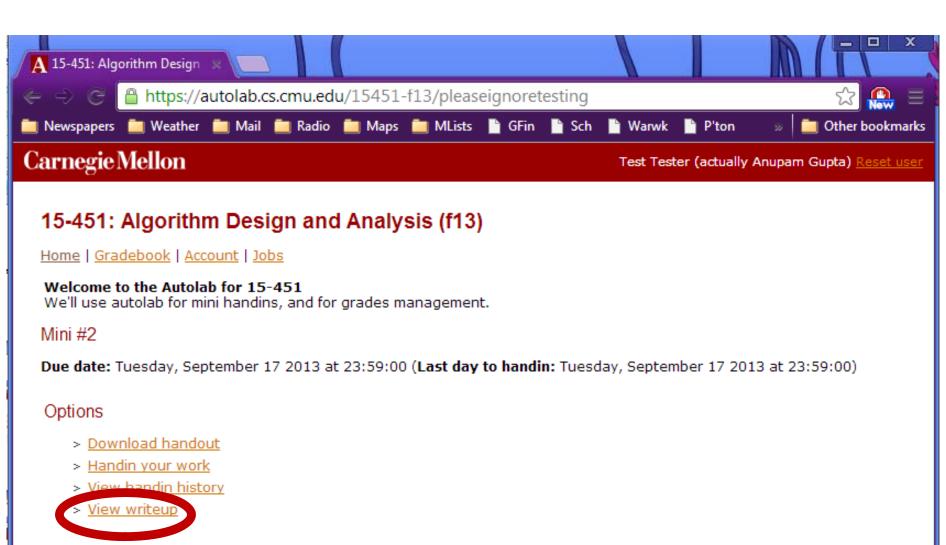
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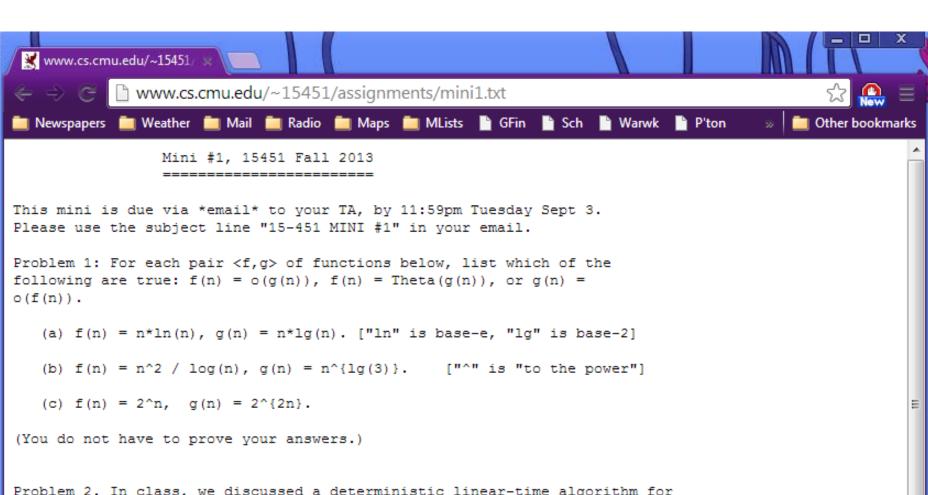
Section | A







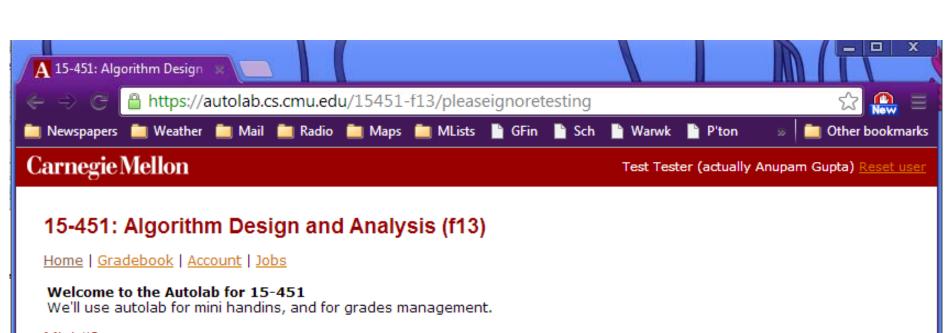




Problem 2. In class, we discussed a deterministic linear-time algorithm for finding the median (or kth smallest element) of an unsorted array. Our analysis of this algorithm gave the recurrence:

 $T(n) \ll T(n/5) + T(7n/10) + cn$ . Suppose we changed the algorithm so that rather than breaking up the array into groups of size 5, we used groups of size 7 instead.

- (a) Write down the recurrence that results from this change of 5 to 7. (Explain your reasoning)
- (b) What does this recurrence solve to?

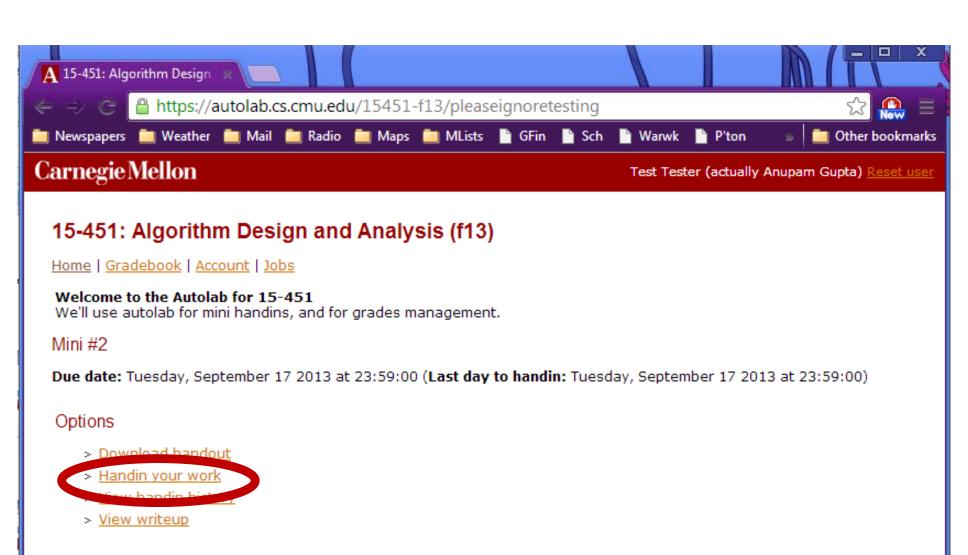


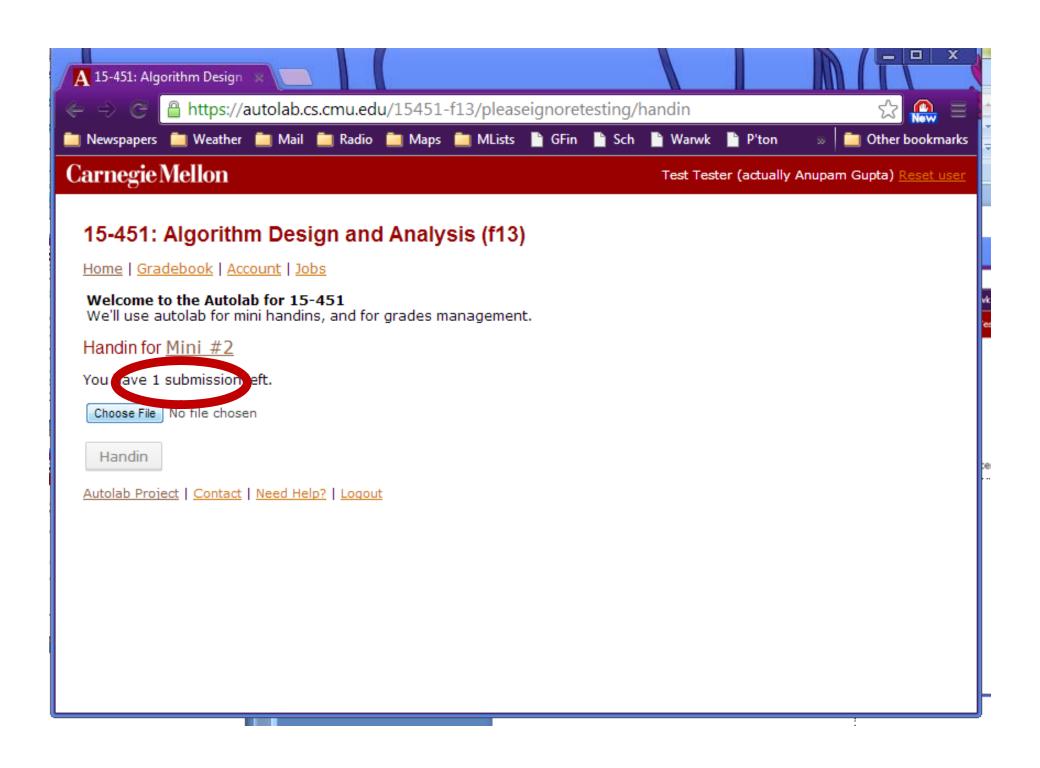
Mini #2

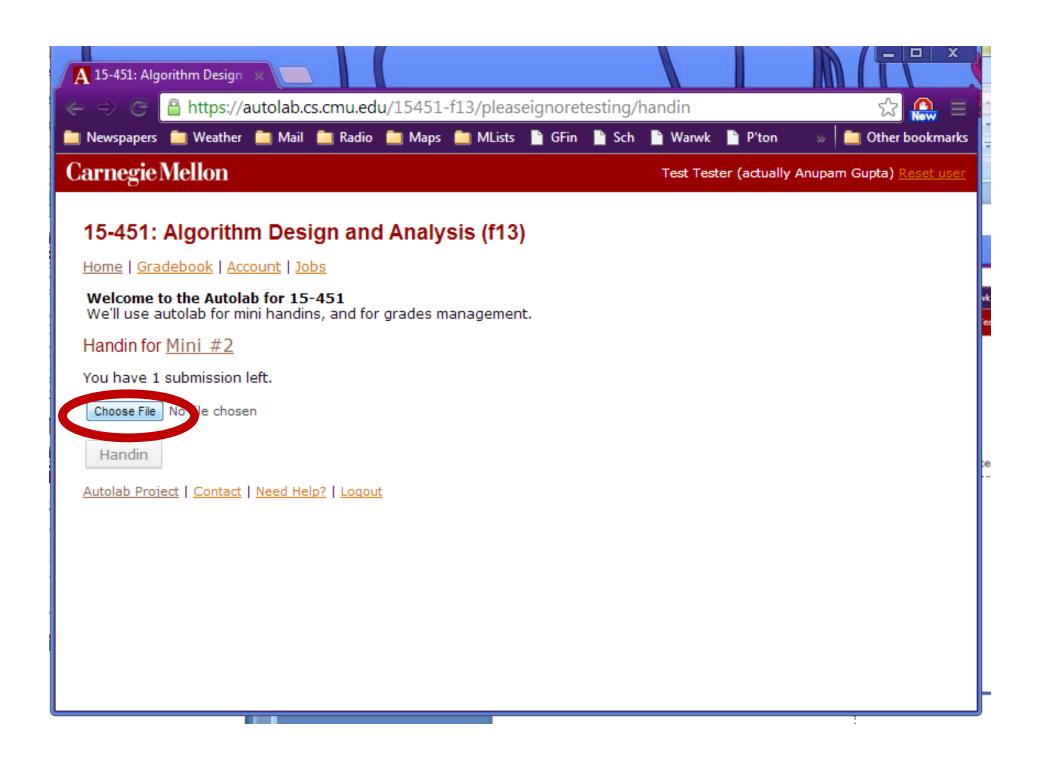
Due date: Tuesday, September 17 2013 at 23:59:00 (Last day to handin: Tuesday, September 17 2013 at 23:59:00)

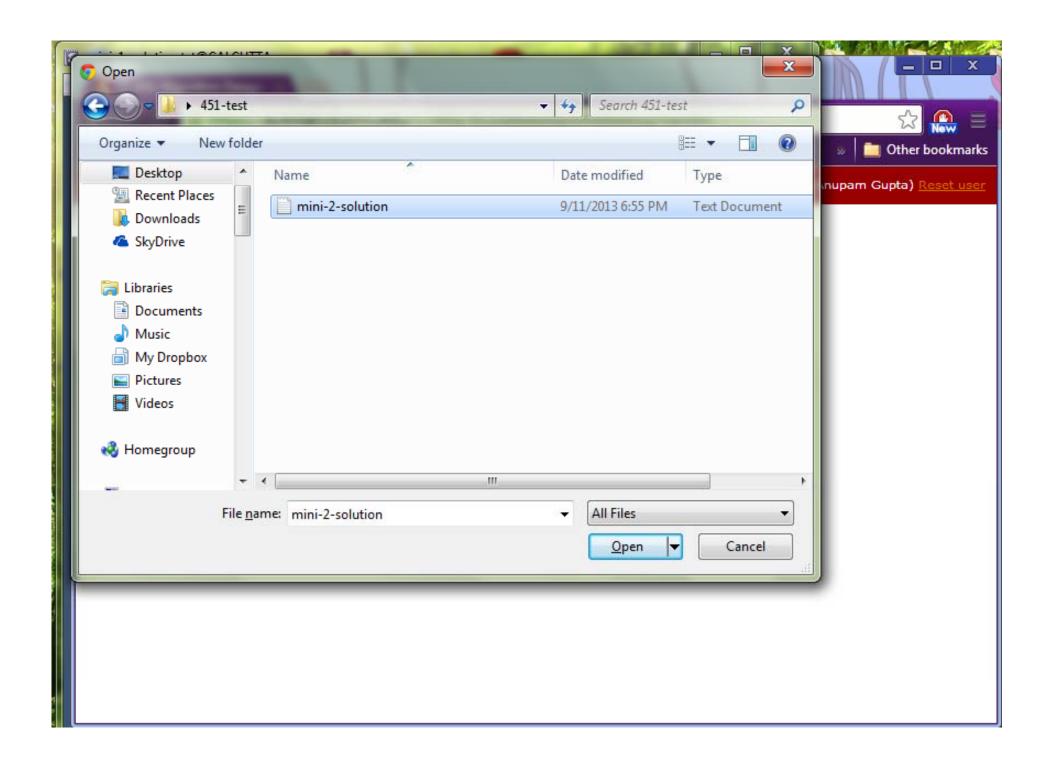
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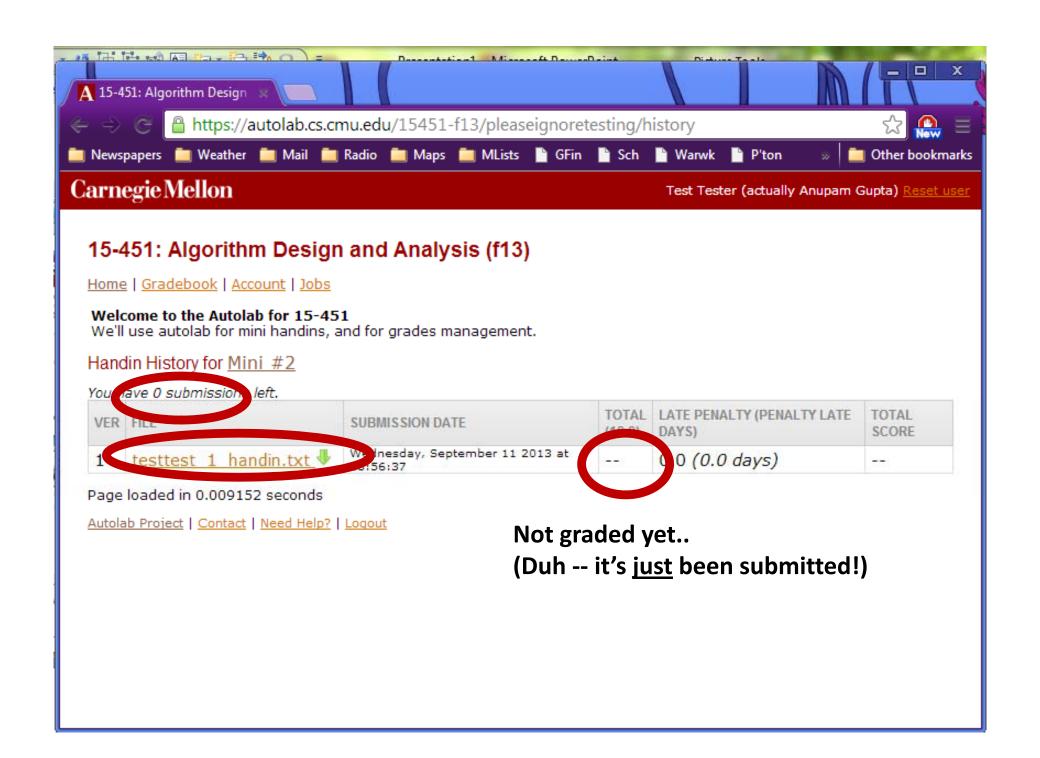
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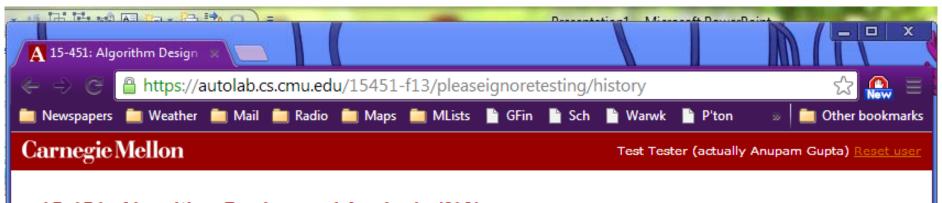












# 15-451: Algorithm Design and Analysis (f13)

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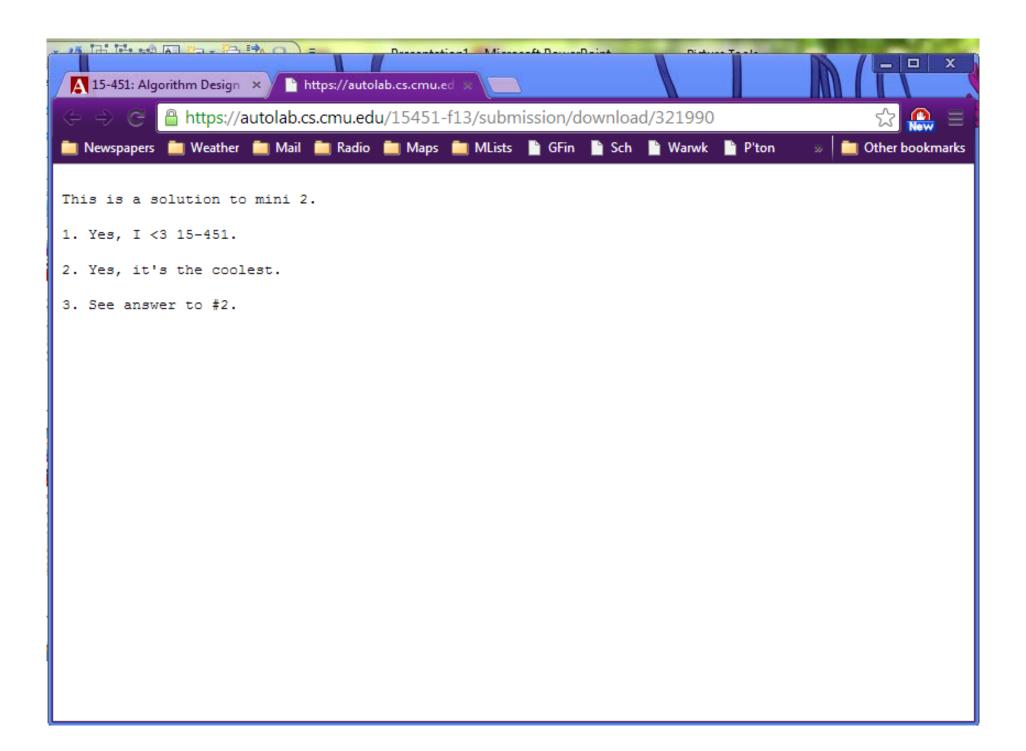
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VER	FILE	SUBMISSION DATE	TOTAL (10.0)	LATE PENALTY (PENALTY LATE DAYS)	TOTAL SCORE				
1	testtest 1 handin txt 🛧	Wednesday, September 11 2013 at 18:56:37		0.0 (0.0 days)					
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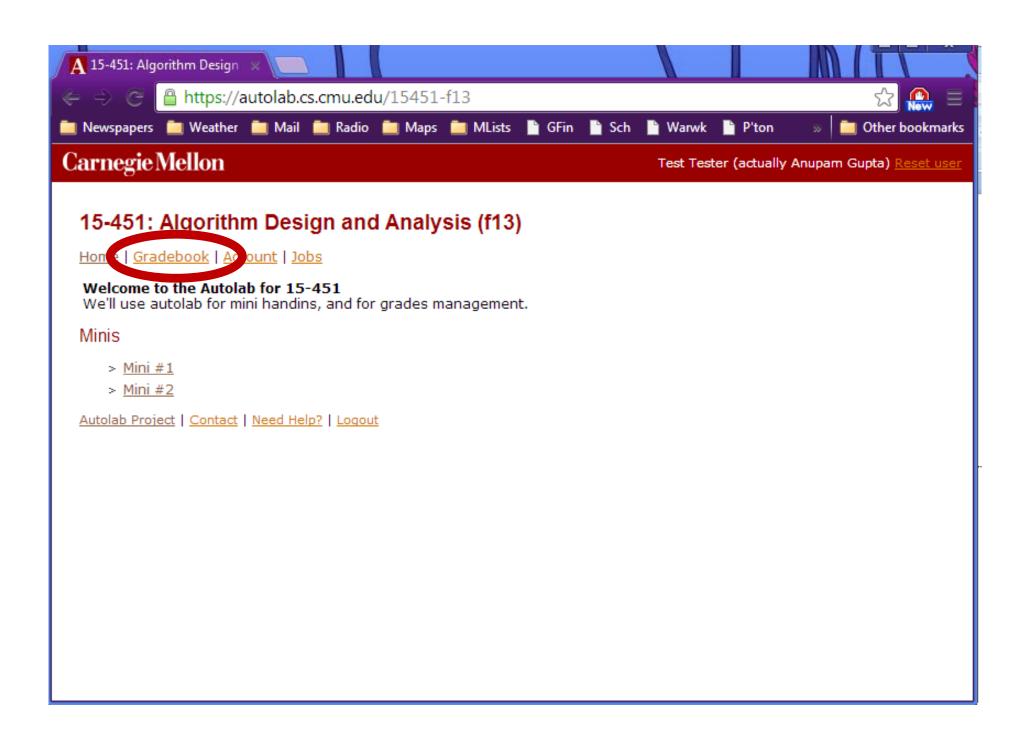
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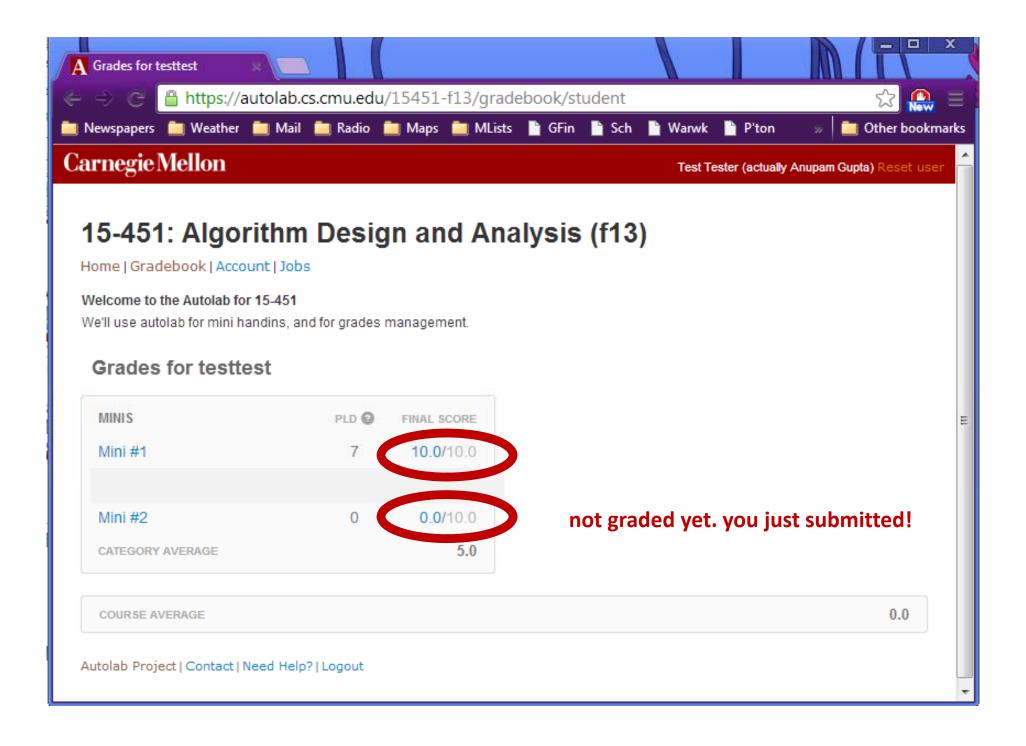
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1	testtest 1 handin.txt ♠	Wednesday, September 11 2013 at 18:56:37	 0.0 (0.0 days)	

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after grading is done...

