
CS 473: Algorithms, Spring 2011
Midterm 1: Thursday, February 24, 2011

Instructions:

- This is a closed book exam. No notes, books, calculators, cellphones, etc. are allowed.
- **Answer Problems 1 and 2, and any 3 out of Problems 3 to 6;** read all questions before deciding which ones to answer. We will take the scores of Problems 1,2 and the highest scoring 3 out of the last 4. You can write “I Don’t Know” for a problem (or its sub-parts) to get 25% credit for that problem (or sub-part). IDK points would be considered only for the highest scoring (regular points) 3 questions of the last four problems. Total number of IDK points awarded would not exceed 10 for the whole exam.
- The time limit for this exam is 2 hours.
- When the problem says “Describe an algorithm ...”, it means that you are required to:
 1. state the algorithm
 2. state its running time and space requirements if any.
 3. You do not need to prove the correctness of the algorithm or the running time. However, a *brief* justification that outlines the main idea can help you get partial credit if your algorithm/analysis turns out to be incorrect or imprecise.
- You may state and use (without proof or justification) any results proved in class or in the homeworks unless we explicitly ask you for one.
- Do all the work in the space provided or on the back sheets if necessary; please tell us where to look. If you do need and use any extra pages please write your netid and name on the top of every extra page and attach them to the exam.

Name	
Netid	

	Max	Points	IDK	Grader
1	10			
2	15			
3	25			
4	25			
5	25			
6	25			
Total	100			

Grade:	
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