

CS313K: Logic, Sets, and Functions

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Lecture 7 – Chap 2 (2.15, 2.16)

Announcements

The first midterm will be held a week from today, Thursday Feb 11, from 3:30 to 5:00.

The exam will be in **WEL 1.308** – not this room!

Bring paper and pencils. No laptops. No computers of any sort. You may use the book and paper notes.

The best way to study for the test is to do the problems in the book, up through page 73.

Your Name: _____ Your EID: _____

Circle Your Discussion Section:

54095: Vinod Venkataraman, Friday, 9:00 – 10:00a, WRW 113

54100: Vinod Venkataraman, Friday, 10:00 – 11:00a, JES A218A

54105: Xu Wang, Friday, 10:00 – 11:00a, SZB 416

54110: Behnam Robatmili, Friday, 12:00 – 1:00p, RLM 5.122

54115: Behnam Robatmili, Friday, 1:00 – 2:00p, CBA 4.344

54120: Xu Wang, Friday, 1:00 – 2:00p, JES A209A

Midterm Exam 1

CS313K Logic, Sets, and Functions – Spring, 2010

Instructions

Write your name and EID above and circle the unique ID of your discussion section! Write your answers in the space provided (see correction below). There are 20 questions. Each question is worth 5 points, but some are harder than others. Partial credit may be given so do your best on each question. You have until 5:00 pm.

You may refer to the course notes (the blue book) during the exam. You may refer to your own notes if they are on paper.

No computers are allowed. No talking is allowed. No cellphones. Remove hats, baseball caps, etc.

You are free to use any function whose definition is exhibited in the blue book. You can use any primitive function used in the blue book, e.g., `if`, `equal`, `first`, `rest`, etc. You can also use any function whose `defun` is shown explicitly in the blue book or in this exam. Some questions explicitly mention functions in previous questions and allow you to use them even if you didn't define them.

If you want to use any other function – even functions I defined in class or you defined in your homeworks or that I

mentioned (but did not define) in the blue book – you must write down their defuns with your answer.

To answer some questions it will be most convenient to define several helper functions first. Use as many functions as you want, but make sure we know what their definitions are!

The last section of the exam has no questions. It just lists some possibly useful defuns we've seen. I recommend that you read the last section first so you know what functions are there.

Correction: The instructions above say “Write your answers in the space provided.” But actually no space is provided!

You must write your answers on the paper you bring!

You must write your name, EID, and section unique id on the first page of your answers.

Then write the number of each question and your answer.

A stapler will be provided to fasten your pages together.