

CSCI 2200 — Foundations of Computer Science (FoCS)
Homework 3 (document version 1.0)

Overview

- This homework is due by 11:59PM on Thursday, October 20
- You may work on this homework in a group of no more than four students; unlike recitation problem sets, **your teammates may be in any section**
- You may use at most **three** late days on this assignment
- Please start this homework early and ask questions during office hours; also ask (and answer) questions on the Discussion Forum
- Please be concise in your answers; even if your solution is correct, if it is not well-presented, you may still lose points
- You can type or hand-write (or both) your solutions to the required graded problems below; **all work must be organized in one PDF that lists all teammate names**
- You are strongly encouraged to use LaTeX, in particular for mathematical symbols; see references in Course Materials
- **EARNING LATE DAYS:** for each homework that you complete using LaTeX (including any tables, graphs, etc., i.e., no hand-written anything), you earn one additional late day; you can draw graphs and other diagrams in another application and include them as image files
- To earn a late day, you must submit your LaTeX files (i.e., *.tex) along with your one required PDF file—please name the PDF file `hw3.pdf`
- Also note that the earned late day can be used retroactively, even back to the first homework assignment!

Warm-up exercises

The problems below are good practice problems to work on. Do not submit these as part of your homework submission. **These are ungraded problems.**

- Problem 7.11.
- Problem 7.12(a-b).
(See Problem 7.28 for hints.)
- Problem 7.21.
- Problem 7.41.
- Problem 7.44.
- Problem 7.46.
- Problem 7.45(a-b,d-f).
- Problem 7.47.
- Problem 8.12(a-c).
- Problem 8.13.
- Problem 8.18.

Graded problems

The problems below are required and will be graded.

- *Problem 7.9.
- *Problem 7.12(c). (See Problem 7.28 for hints.)
- *Problem 7.13(a).
- *Problem 7.19(d).
- *Problem 7.42.
- *Problem 7.45(c).
- *Problem 7.49.
- *Problem 8.12(d).
- *Problem 8.14.