

## Homework

Homework will be due every week on Friday night (11:59), except for the first week and the weeks of midterm exams. Your written portions should be in PDF format. Any figures or diagrams you create should be embedded in the document, not attached as separate files. You can create a PDF file using MS Office in the cse labs, or in OpenOffice anywhere (which is also available on CSE machines).

Although most of your answers will be in paragraph form, you will not be graded down for grammar and spelling. Simply make your answers clear and concise.

Homework typically will have multiple problems and may require mathematical analysis, analysis of an existing program or functions, or programming something new. Programs are important artifacts of our profession. However, learning to program is NOT the main emphasis of this course; rather it is to program more efficiently and to solve problems by using appropriate algorithms. Your analysis of what a program does is much more important than the program code itself. Students completing programs within the hour prior to submission are not taking the responsibility that the level of this course implies.

## Homework Deliverables

Students will submit work via Handin ([www.secure.cse.msu.edu/handin](http://www.secure.cse.msu.edu/handin)). Usually, there will be multiple files. A .pdf file outlining results is always required. If programming is required, program source files, and a Makefile, will also be submitted. Data files are also required. Students are encouraged to do clean handwork, say for analysis, and then to scan that into image or .pdf format to be included in the report.

## Coding Standards

All projects in this course will have a programming portion that must be completed in C++. Your C++ code must:

- Have a newline after each ';' (for loops excluded).
- Each new level of scope should have an additional level of indentation (editors such as emacs do this automatically).
- Variables and classes should be given meaningful full names:
  - Example class names: CmoviePointer, CbinarySearchTree
  - Example variable names: p\_instructionPointer, v\_movieVector, u\_count
- Comments, you should have meaningful comments for all of the following:
  - Classes should have headers describing what their purpose is.
  - Methods and functions should have headers that describe inputs, outputs, and a short description.
  - Variable declarations should have a short description.
  - Loops, logical tests, and control structures should have a short description.
  - Any non-trivial segment of code should have a short description.

## Handin Notes

Avoid project file names that have spaces in them, handin tends to choke on them.

For most assignments, you will be given specific filenames to use for handin. Submit each file individually. Do not submit them as part of a tar-ball or other archived file format. Finally, the time on handin is the final authority as far as due dates are concerned.