



COEN 12 Lab

Introduction & Lab 1



TA

- Andrei Negulescu
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 - Wednesday 5-7 pm, Heafey 224
- Tianxin (Joe) Zhou
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 - Tuesday 5-7 pm, Heafey 224
- Zhongpeng Zhang
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 - TBD



Labs

- Lab1: week 1, 10%
- Lab2: week 2 & 3, 20%
- Lab3: week 4 & 5, 20%
- Lab4: week 6 & 7, 20%
- Lab5: week 8 & 9, 20%
- Lab6: week 10, 10%
- Instructions & required tar file will be uploaded Sunday night or Monday morning before each lab. Please go over the instructions and try to start working on it before the lab.



ECC Linux workstations

- All submissions need to be executable on our lab workstations.
- Windows User: make sure you have [PUTTY](#) installed.
- MacOS User: Terminal
- ECC Remote: [SSH or PUTTY](#)
- [Linux Tutorial](#): command line, directory, vi text editor...
- A [self test](#) for your C programming skills



Submission

- Deadline
 - Sunday midnight (1st, 3rd, 5th, 7th, 9th, 10th).
 - Late penalty: TBD.
- Demo
 - Before the end of the lab AFTER the submission due date.
 - You can demo during TA's office hours too.
- Submission
 - Tar file except the first lab
 - Download your submission after uploading to the camino. Double check if you submitted the correct file!



Grading

- Demo - 30 points
- Code - 70 points
 - Correctness 60%
 - Compilable & executable on ECC workstation
 - No redundant code (ex. Pointless if...else...)
 - Clarity 20%
 - Naming convention
 - Indentation
 - Commenting & style 20%
 - Commenting block at the top: file name, author, date, description
 - Don't comment every line of the code
 - Comment each logic block (functions)
 - Big-O for each function (except lab 1)



Lab 1: Counting the Number of Words

- Create count.c with your code to count the words of a text file
 - Recommend using ["fscanf"](#): no need to consider special characters
- Compile and run
 - gcc count.c
 - ./a.out /scratch/coen12/Macbeth.txt
- Output
 - 18464 total words
- Your program should be able to count the number of words of all the text files under /scratch/coen12
- Submit count.c