## EE 251: Homework 7

All programs must be emailed. Please follow the following steps

- 1. It is probably easier if you create a directory for each homework set, e.g., hw7
- 2. Name each problem as prob\_x\_y.c, where x is the problem number and y is the subproblem if any, e.g., prob\_1\_a.c If there are no subpart to the problem then just use the format prob\_x.c
- 3. Zip all the files (or the directory for that homework if you made one) using the following command

```
tar -czvf lastname_firstname_hw7.tar.gz prob_1.c prob_2_a.c
```

or if you put all the files for a particular homework in its own directory

```
tar -czvf lastname_firstname_hw7.tar.gz hw7
```

Don't forget to change lastname\_firstname with your last and first name

4. Email me you .tar.gz file with EXACTLY the following as the subject

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- 1. Evaluate the following:
  - (a) 1101 1010 & 0011 1100
  - (b) 1101 1010 | 0011 1100
  - (c) 0x1C & 0xF3
  - (d) 0x30 ^ 0x55
- 2. Write a program asks to enter a hex number, then provide him with a menu to either set, clear, or toggle a specific bit. When the user selects his/her option, ask for which bit should be modified. Finally, output the result in hex. Assume that all numbers are unsigned 16-bit.
- 3. Write a program that allows the user to enter a line at a time and if the line contains the word EE251, then reprint the entire line. *Hint: you may find the function* strstr *useful*.