

## EE 251: Homework 5

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., `hw5`
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_hw5.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_hw5.tar.gz hw5
```

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

```
spring 2015 ee251 hw5
```

1. Write and test a function that allows the user to input a number and it checks if the number is correct or not. Assume the numbers are float.
2. Write a function a function that stores  $N$  random numbers to a file, where  $N$  is entered by the user as well as the range of the random numbers.
3. Write and test a function that reads numbers from a file and sorts them in ascending order.