CS161 Proficiency Demonstrations: Student Handout

- 1. Pay close attention to these **requirements**:
 - a. NO global variables.
 - b. No use of help or man.
 - c. No use of the internet.
- 2. Wait to begin until informed by the Proctors.

You will be given 50 minutes from the time the Proctors begin.

- 3. You are encouraged to **spend time with design**; scratch paper is allowed.
- 4. Begin entering in your code using a Linux editor
 - a. You may use vi, vim, emacs, or nano as your editor
 - i. Nano usage: nano test.cpp
 - ii. Use Ctrl+X to save and exit, or Ctrl+O to save without exiting
- 5. You are also allowed to **compile, test, and debug** your work.

```
g++ test.cpp
./a.out
```

- 6. When you are finished, wait for the Proctor to check you off.
 - a. Give the proctor all your design and question material.
 - b. Show, compile, and run your program for the proctor.
 - c. Remove your test.cpp file

Main Template/Libraries for Common Built-in Functions:

```
/* ASCII values:
48-57 //0-9
65-90
      //A-Z
97-122 //a-z
#include <iostream> /* cin, cout, endl */
using namespace std;
int main ()
 //Example usage of random numbers
 srand (time(NULL)); //seed random generator
 rand()%10; //gives 0-9
 //Example usage of C++ strings
 s.size(); //gives number of characters in string
 s[0]; //gives first character in string
 s.at(0); //gives first character in string
 return 0;
}
```