

CSCI 2170 Spring 2013

Homework 1 (Due beginning of class Thursday, Jan 24th)

1. Customize your ranger class account if you have not done so during the closed lab.

Please create separate directories in your ranger account for “homework”, “OLA”, and “CLA”.

2. Download the example code “commandLine.cc” from the course page (www.cs.mtsu.edu/~cen/2170/index.htm) into your “homework” directory.

- a. Compile and run the program with the following command line inputs:

- i. a.out 4 85 76 77 90
- ii. a.out 3 85 75 95
- iii. a.out
- iv. a.out 3 80 74

What output do you get in each case?

- b. Modify the program to display the following information, in addition to the information already being displayed:

- i. The values of “argc” and argv
- ii. The list of scores provided, one per line, each score is labeled with “score[i]”
- iii. The highest and the lowest score

So, for command line input: a.out 3 85 75 90

The output of your modified program should be:

```
argc = 5
argv[0] = a.out
argv[1] = 3
argv[2] = 85
argv[3] = 75
argv[4] = 90
```

There are 3 scores provided

```
scores[0] = 85
scores[1] = 75
scores[2] = 90
```

The highest score is 90

The lowest score is 75

The average score is 83.33

The standard deviation is 6.23

- c. When you are ready to print your program to turn in, do the following:

```
script homework1
cat commandLine.cc
aCC commandLine.cc
a.out 6 98 87.5 75 67.5 78 88
exit
lph homework1
```

Turn in the print out on Thursday.