

CS1023 Lab 6: C basics pointers

February 15, 2011

1. Write a program that calculates the mean and standard deviation of a list of five numbers. Your program should have two functions
 - (a) main: prints information about the program and displays the results
 - (b) CalcStats: calculates the mean and standard deviation of five numbersRecall that $\mu = (\sum x_i)/n$ and
standard deviation = $\sqrt{(\mu - a)^2 + (\mu - b)^2 + (\mu - c)^2 + (\mu - d)^2 + (\mu - e)^2}$
2. You should hard code the data (23,4,15,77,32). Your results should be mean: 30.2 and standard deviation: 25.15
3. Mean and standard deviation should be **passed by reference** and the **data passed by value** to the function
4. If time you can edit your program to read in 5 data values from the user, but that is not the primary goal of this lab.
5. Submit your source code to Blackboard Lab 6. Be sure to include your name and student number as comments.