For lab 11, you should create worksheets similar to those shown in Chapter 16 of the Excel Manual. (We’re skipping Chapter 15 of the Manual.) Data for the worksheets is online at http: //cs.usfca.edu/peter/stats/class_lab11/ Note that for three of the parts the manual uses special macros, but for these parts you should do the calculations using only built-in Excel functions. For the first part compute a $t$ confidence interval. Your worksheet should be similar to that shown in Figure 16.4. The calculations you need to carry out are shown in the column labelled “formulas.” For the second part carry out a significance test using the $t$-distribution. Your worksheet should look similar to the one shown in Figure 16.5, although as in the first part, you should use Excel built-in functions instead of a macro. The last two parts carry out a significance test for matched pairs using the $t$ distribution. For the third part, work through the sections entitled “Matched Pairs $t$ Procedures” and “Using the Analysis ToolPak.” Your worksheet should look similar to the one shown in Figure 16.9. For the final part, do the calculations in the preceding part using only Excel built-in functions. You should create a worksheet similar to that shown in Figure 16.11 using the calculations shown in column C.

What to Turn In
You should turn in a printout of each of your four worksheets.