C Exercises: Input and Output

1. The following program simulates a cash register.
   (a) Write a program that reads in the prices of five products. Then the program prints the final total price using a 6.123% tax.
   (b) Print the final price only with the accuracy of pennies, i.e. for the price 26.893214 the program prints out 26.89.

2. Write a program that reads in: your name, your major and the year in which you will graduate
   prints out: 
   \text{name: } \text{your\_name} \hfill \text{major: } \text{your\_major} \hfill \text{graduation: } \text{year}

3. Write a program that reads $6 \times 200$ floating point numbers, namely 200 lines and 6 columns. To test your program copy the file: 
   into your directory.
   (a) Redirect the input.
   (b) Read first the filename and then read from that file.
   (c) Print into another file column 3 and column 1.
   (d) How could you do (c) with \texttt{awk}?

xmgrace Exercise

4. 
   (a) Do 5. of the “Advanced Unix Exercises”.
   (b) Reproduce the figure of the Radial Pair Distribution (last page of the Unix Exercises).