PROGRAMMING EXERCISES

1. Assume the definition of Exercise 4, which defines the struct fru[it]
   Write a program that declares a variable of type fruitType, prom[pts]
   user to input data about a fruit, and outputs the fruit data.

2. Write a program that reads students' names followed by their test sco[res]
   program should output each student's name followed by the test sco[re]
   the relevant grade. It should also find and print the highest test score a[nd]
   name of the students having the highest test score.

   Student data should be stored in a struct variable of type student[Type]
   which has four components: studentFName and studentLName [of]
   string, testScore of type int (testScore is between 0 and 10[0])
   grade of type char. Suppose that the class has 20 students. Use an arr[ay]
   components of type studentType.

   Your program must contain at least the following functions:

   a. A function to read the students' data into the array.

   b. A function to assign the relevant grade to each student.

   c. A function to find the highest test score.

   d. A function to print the names of the students having the high[est]
      score.

   Your program must output each student's name in this form: last n[ame]
   followed by a comma, followed by a space, followed by the first nam[e]
   name must be left justified. Moreover, other than declaring the variable[s]
   opening the input and output files, the function main should only [be a]
   collection of function calls.

3. Define a struct, menuItemType, with two components: menuIt[em of]
   type string and menuPrice of type double.

4. Write a program to help a local restaurant automate its breakfast bi[lling]
   system. The program should do the following:

   a. Show the customer the different breakfast items offered by the restau[rant.]

   b. Allow the customer to select more than one item from the menu.

   c. Calculate and print the bill.
      Assume that the restaurant offers the following breakfast items (the pr[ice]
      of each item is shown to the right of the item):

Plain Egg	$1.45
Bacon and Egg	$2.45
Muffin	$0.99
French Toast	$1.99
Fruit Basket	$2.49
Cereal	$0.69
Coffee	$0.50
Tea	$0.75

   Use an array, menuList, o[f]
   Programming Exercise 3.
   following functions:

   • Function getData: Th[is]
     menuList.

   • Function showMenu:
     offered by the restaura[nt]

   • Function printCheck:
     (Note that the billing am[ount]
     A sample output is:

   ```
   Welcome to Johnny's
   Bacon and Egg     $2
   Muffin            $0
   Coffee            $0
   Tax               $0
   Amount Due        $4
   ```

   Format your output with two de[cimal]
   output must be left justified. Yo[ur]
   item of a particular type.

5. Redo Exercise 4 so that the custo[mer can order more than one]
   type. A sample output in this cas[e is:]

   ```
   Welcome to Johnny's
   1 Bacon and Egg   $
   2 Muffin          $
   1 Coffee          $
     Tax             $
     Amount Due      $
   ```

6. Write a program whose main f[unction consists only of variable]
   declarations and function calls. T[his program]
   letters, together with their cou[nt]
   printResult. (There can be no[...]
   passed in and out of the functions[...]
   Your program must consist of at [least...]

   • Function openFile: Opens th[e...]
     file streams as parameters (by [...]
     exist, the program should pri[nt...]
     program must ask the user for [...]

   • Function count: Counts eve[ry...]

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