Loopying through an Entire Program

See the list of problems below. Do them. I would like you to spend at least 2 hours on this before the next class. Do the best you can.

For each program that you complete, create a short report (you only need one program run to show several examples!), and then record the approximate number of minutes you spent working on the problem in the space provided. Staple together your reports, in order, to this sheet, with this sheet on top, and hand the “package” in next class.

Your programs should be similar to the GPA07 program posted on the web site:

http://www.csc.villanova.edu/~joyce/csc1051/fall09/projects.html

That program is listed (and annotated) on the back of this handout.

1. Create a program that gets the radius of a circle from the user and then prints the radius, diameter, and circumference of the circle. The program should prompt the user to enter a 1 if they want to continue, 0 to quit, just like the GPA07 program.

   How long did you spend on this problem? ________

2. Design and create a program that prompts for and reads in the user’s age and suggests a different vacation spot depending on whether or not the user is under 21, between 21 and 50, or over 50. For example if the user is under 21 your program could output something like:

   Disneyworld is a great spot.
   But take plenty of cash.

   The program should prompt the user to enter a 1 if they want to continue, 0 to quit, just like the GPA07 program.

   How long did you spend on this problem? ________

3. Similar to the previous problem, with this program you will prompt the user for their age and then make some suggestions of what to do. In this case however you will also prompt them for how much money they have to spend .. and the suggestion should be about where they should go on a date. The logic of the program should consider both how old they are and how much money they have to spend. As with the other two programs, at the end ask the user if they want to “continue”.

   How long did you spend on this problem? ________