Practice 13: Test After Loops*

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Abstract

Questions, exercises, problems, etc. that support this chapter in the "Programming Fundamentals - A Modular Structured Approach using C++" collection/textbook.

1 Learning Objectives

With 100% accuracy during a: memory building activity, exercises, lab assignment, problems, or timed quiz/exam; the student is expected to:

1. Define the terms on the definitions as listed in the modules associated with this chapter.
2. Identify which selection control structures are test after iteration.
3. Be able to write pseudo code or flowcharting for the do while control structure.
4. Be able to write C++ source code for a do while control structure.

2 Memory Building Activities

Link to: MBA 13[1]

3 Exercises

Exercise 1 ***(Solution on p. 3.)***

Answer the following statements as either true or false:

1. The do while and repeat until structure act exactly the same.
2. Students sometimes confuse assignment and equality.
3. The repeat until looping control structure is available in all programming languages.
4. Because flags are often used, they are usually a special data type.
5. The do while is a test before loop.

4 Miscellaneous Items

Link to: Animated gif showing a do while loop[2]

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[1]See the file at <http://cnx.org/content/m20642/latest/index.html>

[2]See the file at <http://cnx.org/content/m20642/latest/do_while_flow.gif>

5 Lab Assignment

5.1 Creating a Folder or Sub-Folder for Chapter 13 Files

Depending on your compiler/IDE, you should decide where to download and store source code files for processing. Prudence dictates that you create these folders as needed prior to downloading source code files. A suggested sub-folder for the **Bloodshed Dev-C++ 5 compiler/IDE** might be named:

- Chapter_13 within the folder named: Cpp_Source_Code_Files

If you have not done so, please create the folder(s) and/or sub-folder(s) as appropriate.

5.2 Download the Lab File(s)

Download and store the following file(s) to your storage device in the appropriate folder(s). You may need to right click on the link and select "Save Target As" in order to download the file.

Download from Connexions: Lab_13_Pseudocode.txt[3]

5.3 Detailed Lab Instructions

Read and follow the directions below carefully, and perform the steps in the order listed.

- Create a source code file from the Lab_13_Pseudocode.txt file. Name it: Lab_13.cpp
- Build (compile and run) your program.
- After you have successfully written this program, if you are taking this course for college credit, follow the instructions from your professor/instructor for submitting it for grading.

6 Problems

6.1 Problem 13a – Instructions

Flowchart the following pseudocode:

Example 1: pseudocode

```
Do
  Display "I like cheese cake!"
  Display "Do it again? y or n ---> "
  Get answer from keyboard
While answer is 'y'
```

[3]See the file at <http://cnx.org/content/m20642/latest/Lab_13_Pseudocode.txt>

Solutions to Exercises in this Module

Solution to Exercise (p. 1)

Answers:

1. false
2. true
3. false
4. false
5. false