Chapter 6 Review

Due: Tuesday (10:00 pm)
Points Possible: 15
No late submissions will be accepted

Print this document, work through the questions prior to starting the self assessment. You will be submitting your answers using the Quiz Tool, with the link found in the current module named **Chapter 6 Review**. There will be a 1 hour time limit when submitting your answers, so be sure to answer all questions prior to your submission. Each question is worth 1 point unless otherwise noted.

NOTE: In the assessment, the answers will be presented in a random order, so make sure you select the correct response and not the letter you circle here.

1. In an array, every element has the same _____.
   a. subscript b. data type c. memory location d. all of the above

2. The operator used to create an object is _____.
   a. = b. += c. new d. create

3. The value placed within square brackets after an array name is _____.
   a. a subscript b. an index c. always an integer d. all of these

4. When an integer array `ages` is correctly declared and initialized using the values `{20, 30, 40, 50}`, then the value of `ages[4]` is ____.
   a. 0 b. 40 c. 50 d. undefined

5. When you declare and initialize an array as
   ```
   int[] temperature = new[] {0, 32, 50, 90, 212, 451};
   ```
   the value of `temperature.Length` is _____.
   a. 5 b. 6 c. 7 d. unknown

6. Two arrays that store related information in corresponding element positions are _____.
   a. analogous arrays b. polymorphic arrays
   c. relative arrays d. parallel arrays

7. What does the following code fragment display on the console?
   ```
   int[] amount = new int[] { 2, 3, 4, 5 };

   for (int index = 0; index <= 3; ++index)
   {
       amount[index] *= 3;
       Console.Write(amount[index].ToString() + " ");
   }
   ```

8. Write a single, valid C# statement, to declare and initialize a single-dimension integer array named `pips` with the data 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12.

9. Using a '`for`' loop, write a valid code fragment that adds 5 to every value in a 12-element

integer array named `pips`. Use the Array property **Length** Points will be deducted if you display to the console. (2 points)

10. Using a '`foreach`' loop, write a valid code fragment that displays to the console, on a single line, every value in a 12-element integer array named `pips`. (2 points)

11. Assume a single-dimension integer array named `numbers` has been properly declared with the values 2, 3, 4, 5.

    Using a '`for`' loop, write the valid code fragment that displays the values in the array in reverse order on a single line. Use the Array property **Length** but do not use the Array method Reverse(). (3 points)
    Hint: remember that the Length property starts at 1, while the array subscript starts at 0.

Remember that this is a self-assessment; therefore, please do your own work, and I hope that you take your time in answering each of the questions. Use Visual Studio, when appropriate, to assist in determining your responses.