**1050 Programming Logic**

Lab 08 - Arrays

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***Instructions:*** *Complete the following exercises. Push your code to github and share the URL to your repository by submitting it to Blackboard.*

1. Fill in the blanks in the following statement (2 points):

Given the following code, output the 2nd element (not index 2) and the last element.

string[] names = { "Al Dente", "Anna Graham", "Earle Bird", "Ginger Rayle", "Iona Ford" };

string[] names = { "Al Dente", "Anna Graham", "Earle Bird", "Ginger Rayle", "Iona Ford" };

Console.WriteLine(names[1]);

Console.WriteLine(names[4]);

1. Create a 12-element array called months. Set each element to the name of each month.

For example months[0] = “January”. Use a for loop to display the number and name of each month. (4 points)

string[] months = {"January", "February", "March", "April", "May", "June", "July", "August",

"September", "October", "November", "December"};

for (int n1 = 0; n1 < 12; n1++)

{ Console.WriteLine(months[n1]); };

1. Create a 4-element array to store the names of 4 seasons. Use a foreach loop to display the name of each season. (4 points)

{

string[] seasons = { "Winter", "Spring", "Summer", "Autumn" };

foreach (string season in seasons)

{

Console.WriteLine(season);

}

}

1. Create an array of integers with 1000 elements. Fill the array with random numbers. Use a foreach loop to print all integers in the array (4 points).

Random random = new Random();  
int randomNumber

randomNumber = random.Next(0, 100); // place this line in the loop

{

{Random someNumber = new Random();

int[] randomNumber = new int[1000];

for (int n2 = 0; n2 < 1000; n2++)

{

randomNumber[n2] = someNumber.Next(0, 1000);

}

foreach (int a in randomNumber)

{

Console.WriteLine(a);

}

}

1. Paste the following code into the main() method. Modify the code; so that it works (You’ll have to make 2 small modifications). It should output the value of each string in the array called names (2 points).

string[] names = { "Al Dente", "Anna Graham", "Earle Bird", "Ginger Rayle", "Iona Ford" };

int i = 0;

while (i < names.Length)

{

Console.WriteLine(names[0]);

}

{

for (int i = 0; i < names.Length; i++)

{

Console.WriteLine(names[i]);

}

Console.Write("\nPress any key to exit...");

Console.ReadKey(true);

}

