For: TJ Liggett

Assignment: Bubble Sort

TFS Name: \Location\Name

Student: Please answer the questions, then use the Insert, Screenshot option in Word to snip an appropriate sample of your executing program’s output. Copy the code from your .cs file(s) into the code section below. Your code should match the code submitted in TFS.

Be sure to review your graded assignment for instructor comments!

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| **Analysis** |
| *Describe the problem, including input and output, in your own words* |
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| **Design** |
| *Describe the major steps for problem solving* |
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| **Testing** |
| *Describe your test plan* |
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| **Screenshot(s)** |
| *Paste screen shot(s) here, within this table entry* |
| https://gyazo.com/636b241bef491d1dfa207d0eb4437a9b.png |

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| **Code** |
| *Paste code here, within this table entry. Use the retain formatting option of the Paste* |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  /\* -------------------------------  This program sorts an array  using the bubble sort method    Note: I'm trying to improve  my commenting/readability  ------------------------------- \*/  namespace BubbleSort  {  class Program  {  static void Main(string[] args)  {  int[] myArray = new int[100]; // { 100, 20, 1, 600, 300, 33, 71, 92 }  Random rando = new Random();  /\* Populates array with random numbers \*/  for (int x = 0; x < myArray.Length; x++)  {  myArray[x] = rando.Next(1, 200);  }  double dots = 10; //edit this variable to change # of generated dots  Console.Write("\nThe original order is: ");  int i = 0; //i is declared outside of for to remove an extra comma  for (i = 0; i < (myArray.Length - 1); i++)  {  Console.Write(myArray[i] + ", ");  }  Console.WriteLine(myArray[i]); //see line 22 comment  Dots(dots);  myArray = BubbleSort(myArray);  Dots(dots);  // \* Outputs final results \*  Console.Write("The sorted array: ");  int y;  for (y = 0; y < myArray.Length - 1; y++)  {  Console.Write(myArray[y] + ", ");  }  Console.WriteLine(myArray[y]);  Console.ReadKey();  }  private static int[] BubbleSort(int[] myArray)  {  Console.WriteLine("Smaller\tLarger");  Console.WriteLine("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");  int arrayHolder;  // Original array: 100, 20, 1, 600, 300, 33, 71, 92  for (int i= 0; i < myArray.Length; i++)  {  for (int x = 0; x < myArray.Length - 1 - i; x++)  {  if (myArray[x] > myArray[x + 1])  {  arrayHolder = myArray[x];  myArray[x] = myArray[x + 1];  myArray[x + 1] = arrayHolder;  Console.Write(myArray[x]);  Console.Write("\t");  Console.WriteLine(myArray[x + 1]);  }  }  }  return myArray;  }  /// <summary>  /// method prints dots  /// for extra readability  /// </summary>  /// <param name="dot"></param>  private static void Dots(double dot)  {  for (int i = 0; i < dot; i++)  {  Console.WriteLine(".");  }  }  }  } |