Started on Wednesday, 6 December 2023, 12:35 PM State Finished Completed on Wednesday, 6 December 2022, 12:37 PM Time taken I min 8 secs Marks I 30:0/13:00 Grade 10:00 out of 10:00 (100%) Question 1 Correct Mark 100 out of 1:00 To find the address of any given element in an Array, in memory, we can use this equation: indexAddress baseAddress		
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<pre>int[] myArray = new int[6]; What is the index of the last (highest) index of myArray? a. 5 ✓ b. 6 c. 7</pre>	Mark 1.00 out of 1.00	
a. 5 ✓b. 6c. 7		
b. 6c. 7	What is the index o	f the last (highest) index of myArray?
○ c. 7	a. 5 ✓	
	O b. 6	
O d. 0	O c. 7	
	O d. 0	

Question 4
Correct
Mark 1.00 out of 1.00
In the example shown below:
<pre>int[,] myArray = new int[20,15];</pre>
What type of array is being intialised?
a. 1 Dimensional, Non-Jagged Array
 ■ b. 2 Dimensional, Non-Jagged Array
c. 2 Dimensional, Jagged Array
Od. 1 Dimensional, Jagged Array
Your answer is correct.
Question 5
Correct
Mark 1.00 out of 1.00
To initialise a List, you MUST declare the data type being stored.
True ✓
○ False
Question 6
Correct
Mark 1.00 out of 1.00
What answer below best describes what happens to a List when a new item is appended, using the .Add() command?
a. The list only ever contains enough space for the current number of items. Calling add results in a new list being created and all values
being copied over. Then the new item is added to the new empty space.

- b. If there is space (capacity), the item is added to the end of the list. If there is not enough space the list is resized and the new item
 is added, size is incremented by one.
- oc. As lists are always fixed-size and cannot change size after creation, the least recently accessed element is replaced with the new value.
- od. If there is space (capacity), the item is added to the end of the list. If there is not enough space the item is silently discarded.

Your answer is correct.

Question 7
Correct
Mark 1.00 out of 1.00
Strings, in C#, are immutable . This means it cannot be changed once it has been created.
True ✓
○ False
Question 8
Correct
Mark 1.00 out of 1.00
A String is an example of a collection.
What expression below BEST describes this collection?
☑ a. IEnummerable <char> ✔</char>
□ b. List <char></char>
c. Dictionary <int, char=""></int,>
Your answer is correct.
Question 9
Correct
Mark 1.00 out of 1.00
A Dictionary DOES NOT require the data types of the key and value, to be declared when the dictionary is created.
○ True
False ✓
Question 10 Correct
Mark 1.00 out of 1.00
BOTH the types of the KEY and VALUE of a Dictionary entry MUST be of the same data type
○ True
● False

Question 11
Correct
Mark 1.00 out of 1.00
To initialise a HashSet you DO NOT require the data type.
○ True
False ✓
Question 12
Correct
Mark 1.00 out of 1.00
In C#, how would we define a Set/HashSet? Sets are unordered ✓ collections of unique ✓ elements. hierarchical untyped ordered [labelled] duplicate paired Your answer is correct.
Question 13
Correct
Mark 1.00 out of 1.00
Given the following code:
<pre>var numbers = new HashSet<int>{1,6,3,7,8};</int></pre>
What happens if I run the operation below?
numbers.Add(6);
a. A runtime error/exception occurs.
 b. This code would not compile - sets can only contain class types, and int is not a class type.
c. The HashSet adds 6 to the set.

e. This code would not compile - sets cannot be modified after creation
C Code would not complie to be annot be induned after creditori
Your answer is correct.
■ Worksheet 4 Brief
Jump to