Started on	Thursday, 12 December 2024, 11:07 PM		
State			
	Thursday, 12 December 2024, 11:09 PM		
	1 min 52 secs		
	13.00/13.00		
Grade	10.00 out of 10.00 (100 %)		
Question 1 Correct Mark 1.00 out of 1.00			
indexAddress = ba	of any given element in an Array, in memory, we can use this equation: aseAddress + (elementSize index elementSize iseAddress indexAddress indexAddress		
Question 2 Correct Mark 1.00 out of 1.00			
To initialise an array	, you MUST explicitly specify the size OR its contents must be explicitly defined.		
● True			
○ False			
- rajsc			
Question 3			
Correct			
Mark 1.00 out of 1.00			
Consider the follow int[] myArray = ne	·		
What is the index o	f the last (highest) index of myArray?		
○ a. 0			
O c. 6			
O d. 7			

Your answer is correct.

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Question 4	
Correct	
Mark 1.00 out of 1.00	
<pre>In the example shown below: int[,] myArray = new int[20,15];</pre>	
Int[,] myArray = new Int[20,15];	
What type of array is being intialised?	
a. 2 Dimensional, Non-Jagged Array ✓	
b. 1 Dimensional, Non-Jagged Array	
c. 1 Dimensional, Jagged Array	
d. 2 Dimensional, Jagged Array	
Your answer is correct.	
r	
Question 5 Correct	
Mark 1.00 out of 1.00	
To initialize a link way BALICT dealers the data to	
To initialise a List, you MUST declare the data ty	pe 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. 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.
- b. As lists are always fixed-size and cannot change size after creation, the least recently accessed element is replaced with the new value.
- o. 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.
- 🍥 d. 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.

Your answer is correct.

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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. IEnumerable < char > ✓	
b. Dictionary<int, char=""></int,>	
oc. List <char></char>	
Your answer is correct.	
Question 9	
Correct	
Mark 1.00 out of 1.00	
A Distinguis DOES NOT require the data times of the	key and value, to be declared when the dictionary is created.
A Dictionary DOES NOT require the data types of the k	ey and value, to be declared when the dictionary is created.
O True	
False ✓	
10	
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. ordered hierarchical untyped duplicate labelled paired		
Your answer is correct.		
Question 13 Correct Mark 1.00 out of 1.00		
Given the following code: var numbers = new HashSet <int>{1,6,3,7,8}; What happens if I run the operation below? numbers.Add(6);</int>		
 a. A runtime error/exception occurs. b. The HashSet adds 6 to the set. c. Nothing happens. ✓ d. This code would not compile - sets cannot be modified after creation e. This code would not compile - sets can only contain class types, and int is not a class type. 		
Your answer is correct.		
✓ Worksheet 4 Brief		
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