

Name: Answer Sheet

Date: 05/25/2016

Quiz name: Module 1: Collections Part 1

Score: 100%

-
- ✓ 1. _____ are used to organize classes within libraries into modules. They also prevent two classes with the same name from overlapping with each other.
- ☐ A Source code files
 - ☒ B Namespaces
 - ☐ C Curly braces
 - ☐ D Instances
 - ☐ E I don't know
-
- ✓ 2. The process of converting a value type into a reference type is called _____.
- ☐ A Memory conversion
 - ☐ B Heap allocation
 - ☒ C Boxing
 - ☐ D Casting
 - ☐ E I don't know
-
- ✓ 3. The List<T>, Queue<T>, Stack<T>, and HashSet<T> class reside within which namespace?
- ☐ A System
 - ☐ B System.IO
 - ☒ C System.Collections.Generic
 - ☐ D System.Collections
 - ☐ E I don't know
-
- ✓ 4. Lists have a fixed size to what they are able to hold. Adding too many items will go outside the bounds of the list.
- ☐ A True
 - ☒ B False
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- ✓ 5. Stack<T> is a LIFO (last-in first-out) data structure
- ☒ A True
 - ☐ B False
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- ✓ 6. Queue is a FILO (first-in last-out) data structure
- ☐ A True
 - ☒ B False
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- ✓ 7. Which of the following choices are true about HashSet<T>?
- ☐ A It has a zero-based index.
 - ☒ B It is only able to hold distinct values within it.

- ☒ C You need to use a foreach loop if you want to iterate through it.
 - ☐ D If you try to add an item to it that already exists a runtime error occurs.
 - ☐ E I don't know.
-

Which line in the below program creates a compiler error?

```
List<int> list = new List<int>(); //line 1
```

```
list.Add(3); // line 2
```

```
list.Add(4); // line 3
```

```
list.Add("Hi!"); // line 4
```

✓ 8.

```
Console.WriteLine("There are " + list.Count + " items in the list"); // line 5
```

- ☐ A Line 1
- ☐ B Line 2
- ☐ C Line 3
- ☒ D Line 4
- ☐ E Line 5