

Microsoft MCSD 70-483 Exam



Vendor: Microsoft

Exam Code: 70-483

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Version: Demo

QUESTION 1

You are developing an application that includes a class named Order. The application will store a collection of Order objects.

The collection must meet the following requirements:

- Use strongly typed members.
- Process Order objects in first-in-first-out order.
- Store values for each Order object.
- Use zero-based indices.

You need to use a collection type that meets the requirements.

Which collection type should you use?

- A. Queue<T>
- B. SortedList
- C. LinkedList<T>
- D. HashTable
- E. Array<T>

Correct Answer: A

QUESTION 2

You are developing an application. The application calls a method that returns an array of integers named employeeIds. You define an integer variable named employeeIdToRemove and assign a value to it. You declare an array named filteredEmployeeIds.

You have the following requirements:

- Remove duplicate integers from the employeeIds array.
- Sort the array in order from the highest value to the lowest value.
- Remove the integer value stored in the employeeIdToRemove variable from the employeeIds array.

You need to create a LINQ query to meet the requirements.

Which code segment should you use?

- A.

```
int[] filteredEmployeeIds = employeeIds.Where(value => value != employeeIdToRemove).OrderBy(x => x).ToArray();
```
- B.

```
int[] filteredEmployeeIds = employeeIds.Where(value => value != employeeIdToRemove).OrderByDescending(x => x).ToArray();
```
- C.

```
int[] filteredEmployeeIds = employeeIds.Distinct().Where(value => value != employeeIdToRemove).OrderByDescending(x => x).ToArray();
```
- D.

```
int[] filteredEmployeeIds = employeeIds.Distinct().OrderByDescending(x => x).ToArray();
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: C

QUESTION 3

You are developing an application that includes the following code segment. (Line numbers are included for reference only.)

```
01 class Animal
02 {
03     public string Color { get; set; }
04     public string Name { get; set; }
05 }
06 private static IEnumerable<Animal> GetAnimals(string sqlConnectionString)
07 {
08     var animals = new List<Animal>();
09     SqlConnection sqlConnection = new SqlConnection(sqlConnectionString);
10     using (sqlConnection)
11     {
12         SqlCommand sqlCommand = new SqlCommand("SELECT Name, ColorName FROM Animals", sqlConnection);
13
14         using (SqlDataReader sqlDataReader = sqlCommand.ExecuteReader())
15         {
16
17             {
18                 var animal = new Animal();
19                 animal.Name = (string)sqlDataReader["Name"];
20                 animal.Color = (string)sqlDataReader["ColorName"];
21                 animals.Add(animal);
22             }
23         }
24     }
25     return animals;
26 }
```

The GetAnimals() method must meet the following requirements:

- Connect to a Microsoft SQL Server database.
- Create Animal objects and populate them with data from the database.
- Return a sequence of populated Animal objects.

You need to meet the requirements.

Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Insert the following code segment at line 16:
while (sqlDataReader.NextResult())
- B. Insert the following code segment at line 13:
sqlConnection.BeginTransaction();
- C. Insert the following code segment at line 13:
sqlConnection.Open();
- D. Insert the following code segment at line 16:
while (sqlDataReader.Read())
- E. insert the following code segment at line 16:
while (sqlDataReader.GetValues())

Correct Answer: CD

QUESTION 4

DRAG DROP

You are developing a custom collection named LoanCollection for a class named Loan class. You need to ensure that you can process each Loan object in the LoanCollection collection by using a foreach loop. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

: IComparable

: IEnumerable

: IDisposable

public IEnumerator GetEnumerator()

public int CompareTo(object obj)

public void Dispose()

_loanCollection[0].Amount++;

return obj == null ? 1 : _loanCollection.Length;

return _loanCollection.GetEnumerator();

```

public class LoanCollection
{
    private readonly Loan[] _loanCollection;
    public LoanCollection(Loan[] loanArray)
    {
        _loanCollection = new Loan[loanArray.Length];

        for (int i = 0; i < loanArray.Length; i++)
        {
            _loanCollection[i] = loanArray[i];
        }
    }
}
    
```

Correct Answer:

```
: IComparable
: IEnumerable
: IDisposable
public IEnumerator GetEnumerator()
public int CompareTo(object obj)
public void Dispose()
loanCollection[0].Amount++;
return obj == null ? 1 : _loanCollection.Length;
return _loanCollection.GetEnumerator();
```

```
public class LoanCollection : IEnumerable
{
    private readonly Loan[] _loanCollection;
    public LoanCollection(Loan[] loanArray)
    {
        _loanCollection = new Loan[loanArray.Length];

        for (int i = 0; i < loanArray.Length; i++)
        {
            _loanCollection[i] = loanArray[i];
        }
    }

    public IEnumerator GetEnumerator()
    {
        return _loanCollection.GetEnumerator();
    }
}
```

QUESTION 5

You are developing an application that uses the Microsoft ADO.NET Entity Framework to retrieve order information from a Microsoft SQL Server database. The application includes the following code. (Line numbers are included for reference only.)

```
01 public DateTime? OrderDate;
02 IQueryable<Order> LookupOrdersForYear(int year)
03 {
04     using (var context = new NorthwindEntities())
05     {
06         var orders =
07             from order in context.Orders
08
09             select order;
10         return orders.ToList().AsQueryable();
11     }
12 }
```

The application must meet the following requirements:

- Return only orders that have an OrderDate value other than null.
- Return only orders that were placed in the year specified in the OrderDate property or in a later year.

You need to ensure that the application meets the requirements.

Which code segment should you insert at line 08?

- A. Where order.OrderDate.Value != null && order.OrderDate.Value.Year >= year
- B. Where order.OrderDate.Value == null && order.OrderDate.Value.Year == year
- C. Where order.OrderDate.HasValue && order.OrderDate.Value.Year == year
- D. Where order.OrderDate.Value.Year == year

Correct Answer: A

Explanation:

*For the requirement to use an OrderDate value other than null use:

OrderDate.Value != null

*For the requirement to use an OrderDate value for this year or a later year use:

OrderDate.Value >= year

QUESTION 6

DRAG DROP

You are developing an application by using C#. The application includes an array of decimal values named loanAmounts. You are developing a LINQ query to return the values from the array.

The query must return decimal values that are evenly divisible by two. The values must be sorted from the lowest value to the highest value.

You need to ensure that the query correctly returns the decimal values.

How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

join	<code>decimal[] loanAmounts = { 303m, 1000m, 85579m, 501.51m, 603m</code>
from	<code>1200m, 400m, 22m };</code>
group	<code>IEnumerable<decimal> loanQuery =</code>
ascending	<code>amount in loanAmounts</code>
descending	<code>amount % 2 == 0</code>
where	<code>amount</code>
orderby	<code>amount;</code>
select	

Correct Answer:

join	<code>decimal[] loanAmounts = { 303m, 1000m, 85579m, 501.51m, 603m</code>
from	<code>1200m, 400m, 22m };</code>
group	<code>IEnumerable<decimal> loanQuery =</code>
ascending	<code>from amount in loanAmounts</code>
descending	<code>where amount % 2 == 0</code>
where	<code>orderby amount ascending</code>
orderby	<code>select amount;</code>
select	

QUESTION 7

You are developing an application. The application includes a method named ReadFile that reads data from a file.

The ReadFile() method must meet the following requirements:

- It must not make changes to the data file.
- It must allow other processes to access the data file.
- It must not throw an exception if the application attempts to open a data file that does not exist.

You need to implement the ReadFile() method.

Which code segment should you use?

- A. `var fs = File.ReadAllBytes(Filename);`
- B. `var fs = File.Open(Filename, FileMode.OpenOrCreate, FileAccess.Read, FileShare.ReadWrite);`
- C. `var fs = File.ReadAllLines(Filename);`
- D. `var fs = File.Open(Filename, FileMode.Open, FileAccess.Read, FileShare.ReadWrite);`
- E. `var fs = File.Open(Filename, FileMode.OpenOrCreate, FileAccess.Read, FileShare.Write);`

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: B

QUESTION 8

An application receives JSON data in the following format:

```
{ "FirstName" : "David",  
  "LastName" : "Jones",  
  "Values" : [0, 1, 2] }
```

The application includes the following code segment. (Line numbers are included for reference only.)


```
01 public class Name
02 {
03     public int[] Values { get; set; }
04     public string FirstName { get; set; }
05     public string LastName { get; set; }
06 }
07 public static Name ConvertToName(string json)
08 {
09     var ser = new JavaScriptSerializer();
10
11 }
```

You need to ensure that the ConvertToName() method returns the JSON input string as a Name object.

Which code segment should you insert at line 10?

- A. Return ser.ConvertToType<Name>(json);
- B. Return ser.DeserializeObject(json);
- C. Return ser.Deserialize<Name>(json);
- D. Return (Name)ser.Serialize(json);

Correct Answer: C

QUESTION 9

DRAG DROP

An application serializes and deserializes XML from streams. The XML streams are in the following format:

```
<Name xmlns="http://www.contoso.com/2012/06">
  <LastName>Jones</LastName>
  <FirstName>David</FirstName>
</Name>
```

The application reads the XML streams by using a DataContractSerializer object that is declared by the following code segment:

```
var ser = new DataContractSerializer(typeof(Name));
```

You need to ensure that the application preserves the element ordering as provided in the XML stream.

How should you complete the relevant code? (To answer, drag the appropriate attributes to the correct locations in the answer area-Each attribute may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
[DataContract (Namespace="http://www.contoso.com/2012/06" ) ]
[DataMember (Order=10) ]
[DataMember ]
[DataContract (Name="http://www.contoso.com/2012/06" ) ]
[DataMember (Name="http://www.contoso.com/2012/06", Order=10) ]
[DataContract ]
[DataMember (Name="http://www.contoso.com/2012/06" ) ]
```

```
class Name
{
    public string FirstName { get; set; }
    public string LastName { get; set; }
}
```

Correct Answer:

```
[DataContract (Namespace="http://www.contoso.com/2012/06") ]
```

```
[DataMember (Order=10) ]
```

```
[DataMember]
```

```
[DataContract (Name="http://www.contoso.com/2012/06") ]
```

```
[DataMember (Name="http://www.contoso.com/2012/06", Order=10) ]
```

```
[DataContract]
```

```
[DataMember (Name="http://www.contoso.com/2012/06") ]
```

```
[DataContract (Namespace="http://www.contoso.com/2012/06") ]
```

```
class Name
```

```
{
```

```
    [DataMember (Order=10) ]
```

```
    public string FirstName { get; set; }
```

```
    [DataMember]
```

```
    public string LastName { get; set; }
```

```
}
```

QUESTION 10

You are developing an application. The application converts a Location object to a string by using a method named WriteObject. The WriteObject() method accepts two parameters, a Location object and an XmlObjectSerializer object.

The application includes the following code. (Line numbers are included for reference only.)

```
01 public enum Compass
02 {
03     North,
04     South,
05     East,
06     West
07 }
08 [DataContract]
09 public class Location
10 {
11     [DataMember]
12     public string Label { get; set; }
13     [DataMember]
14     public Compass Direction { get; set; }
15 }
16 void DoWork()
17 {
18     var location = new Location { Label = "Test", Direction = Compass.West };
19     Console.WriteLine(WriteObject(location,
20
21     ));
22 }
```

You need to serialize the Location object as a JSON object.

Which code segment should you insert at line 20?

- A. New DataContractSerializer(typeof(Location))
- B. New XmlSerializer(typeof(Location))
- C. New NetDataContractSerializer()
- D. New DataContractJsonSerializer(typeof(Location))

Correct Answer: D

Explanation:

The DataContractJsonSerializer class serializes objects to the JavaScript Object Notation (JSON) and deserializes JSON data to objects. Use the DataContractJsonSerializer class to serialize instances of a type into a JSON document and to deserialize a JSON document into an instance of a type.

QUESTION 11

An application includes a class named Person. The Person class includes a method named GetData. You need to ensure that the GetData() method can be used only by the Person class or a class derived from the Person class. Which access modifier should you use for the GetData() method?

- A. Internal
- B. Protected
- C. Private
- D. Protected internal
- E. Public

Correct Answer: B

Explanation:

The protected keyword is a member access modifier. A protected member is accessible within its class and by derived class instances.

QUESTION 12

You are developing an application by using C#. The application includes the following code segment. (Line numbers are included for reference only.)

```
01 public interface IDataContainer
02 {
03     string Data { get; set; }
04 }
05 void DoWork(object obj)
06 {
07
08     if (dataContainer != null)
09     {
10         Console.WriteLine(dataContainer.Data);
11     }
12 }
```

The DoWork() method must not throw any exceptions when converting the obj object to the IDataContainer interface or when accessing the Data property.

You need to meet the requirements. Which code segment should you insert at line 07?

- A. var dataContainer = (IDataContainer)obj;
- B. dynamic dataContainer = obj;
- C. var dataContainer = obj is IDataContainer;
- D. var dataContainer = obj as IDataContainer;

Correct Answer: D

QUESTION 13

You are creating an application that manages information about zoo animals. The application includes a class named Animal and a method named Save.

The Save() method must be strongly typed. It must allow only types inherited from the Animal class that uses a constructor that accepts no parameters.

You need to implement the Save() method.

Which code segment should you use?

- A. `public static void Save<T>(T target) where T : new(), Animal`
`{`
 `...`
`}`
- B. `public static void Save<T>(T target) where T : Animal`
`{`
 `...`
`}`
- C. `public static void Save<T>(T target) where T : Animal, new()`
`{`
 `...`
`}`
- D. `public static void Save(Animal target)`
`{`
 `...`
`}`

- A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: C

QUESTION 14

DRAG DROP

You are developing a class named `ExtensionMethods`. You need to ensure that the `ExtensionMethods` class implements the `IsUrl()` method on string objects. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
public static class ExtensionMethods
```

```
public class ExtensionMethods
```

```
this String str
```

```
String str
```

```
protected static class ExtensionMethods
```

```
.....
```

```
{  
    public static bool IsUrl(  
          
    )  
    {  
        var regex = new Regex(  
            "(https?://)?([A-Za-z9-0-]*\\.)?([A-Za-z0-9-]*)" +  
            "\\.[A-Za-z0-9]*/?.*");  
        return regex.IsMatch(str);  
    }  
}
```

Correct Answer:

```
public static class ExtensionMethods
```

```
public class ExtensionMethods
```

```
this String str
```

```
String str
```

```
protected static class ExtensionMethods
```

```
.....
```

```
public static class ExtensionMethods
```

```
{
    public static bool IsUrl(
        this String str
    )
    {
        var regex = new Regex(
            "(https?://)?([A-Za-z9-0-]*\\.)*?([A-Za-z0-9-]*)" +
            "\\.[A-Za-z0-9]*/?.*");
        return regex.IsMatch(str);
    }
}
```

QUESTION 15

You are developing an application. The application includes classes named Employee and Person and an interface named IPerson.

The Employee class must meet the following requirements:

- It must either inherit from the Person class or implement the IPerson interface.
- It must be inheritable by other classes in the application.

You need to ensure that the Employee class meets the requirements.

Which two code segments can you use to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

A. `sealed class Employee : Person`
`{`
 `...`
`}`

B. `abstract class Employee : Person`
`{`
 `...`
`}`

C. `sealed class Employee : IPerson`
`{`
 `...`
`}`

D. `abstract class Employee : IPerson`
`{`
 `...`
`}`

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: BD

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352-001	642-813	JK0-010	SY0-401	1Z0-485		EX300
400-101	642-832	JK0-801	PK0-003	1Z0-580		
640-461	642-902			1Z0-820		

