

## Version: 13.0

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### Question: 1

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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>

---

**Answer: A**

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Explanation:

Queues are useful for storing messages in the order they were received for sequential processing. Objects stored in a Queue<T> are inserted at one end and removed from the other.

Reference:

<http://msdn.microsoft.com/en-us/library/7977ey2c.aspx>

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### Question: 2

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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

---

**Answer: C**

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The Distinct keyword avoids duplicates, and OrderByDescending provides the proper ordering from highest to lowest.

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### Question: 3

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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.Open();
```

C. Insert the following code segment at line 13:

```
sqlConnection.BeginTransaction();
```

D. Insert the following code segment at line 16:

```
while(sqlDataReader.Read())
```

E. Insert the following code segment at line 16:

```
while(sqlDataReader.GetValues())
```

---

**Answer: B, D**

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Explanation:

B: SqlConnection.Open - Opens a database connection with the property settings specified by the ConnectionString.

Reference:

<http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqlconnection.open.aspx>

D: SqlDataReader.Read - Advances the SqlDataReader to the next record. Reference:

<http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqldatareader.read.aspx>

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## Question: 4

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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)

a. 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];
        }
    }
}

{
}

}
```

**Answer:**

```
: IComparable
```

```
: IDisposable
```

```
public int CompareTo(object obj)
```

```
public void Dispose()
```

```
_loanCollection[0].Amount++;
```

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

```
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

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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

---

**Answer: A**

---

\*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

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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)

a. 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.)

The screenshot shows a C# code editor with a list of LINQ operators on the left and a code snippet on the right. The code snippet is as follows:

```
decimal[] loanAmounts = { 303m, 1000m, 85579m, 501.51m, 603m  
1200m, 400m, 22m };  
IEnumerable<decimal> loanQuery =  
[ ] amount in loanAmounts  
[ ] amount % 2 == 0  
amount [ ]  
amount;
```

The left sidebar contains buttons for: join, from, group, ascending, descending, where, orderby, and select.

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**Answer:**

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- Box 1: from
- Box 2: where
- Box 3: orderby
- Box 4: ascending
- Box 5: select

Note: In a query expression, the orderby clause causes the returned sequence or subsequence (group) to be sorted in either ascending or descending order.

Examples:

// Query for ascending sort.

```
IEnumerable<string> sortAscendingQuery =  
    from fruit in fruits  
    orderby fruit //"ascending" is default  
    select fruit;
```

// Query for descending sort.

```
IEnumerable<string> sortDescendingQuery =  
    from w in fruits  
    orderby w descending  
    select w;
```

---

### Question: 7

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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.Open(Filename, FileMode.OpenOrCreate, FileAccess.Read,

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

---

**Answer: A**

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Explanation:

FileMode.OpenOrCreate - Specifies that the operating system should open a file if it exists; otherwise, a new file should be created. If the file is opened with FileAccess.Read, FileIOPermissionAccess.Read permission is required. If the file access is FileAccess.Write, FileIOPermissionAccess.Write permission is required. If the file is opened with FileAccess.ReadWrite, both FileIOPermissionAccess.Read and FileIOPermissionAccess.Write permissions are required.

<http://msdn.microsoft.com/en-us/library/system.io.filemode.aspx>

FileShare.ReadWrite - Allows subsequent opening of the file for reading or writing. If this flag is not specified, any request to open the file for reading or writing (by this process or another process) will fail until the file is closed. However, even if this flag is specified, additional permissions might still be needed to access the file.

<http://msdn.microsoft.com/pl-pl/library/system.io.fileshare.aspx>

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### Question: 8

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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);

---

**Answer: C**

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Explanation:

JavaScriptSerializer.Deserialize<T> - Converts the specified JSON string to an object of type T.

<http://msdn.microsoft.com/en-us/library/bb355316.aspx>

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### Question: 9

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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; }
```

```
}
```

---

**Answer:**

---

```
[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; }
}
```

Explanation:

Target 1: The DataContractAttribute.Namespace Property gets or sets the namespace for the data contract for the type. Use this property to specify a particular namespace if your type must return data that complies with a specific data contract.

Target2, target3: We put Order=10 on FirstName to ensure that LastName is ordered first.

Note:

The basic rules for data ordering include:

- \* If a data contract type is a part of an inheritance hierarchy, data members of its base types are always first in the order.
- \* Next in order are the current type's data members that do not have the Order property of the DataMemberAttribute attribute set, in alphabetical order.
- \* Next are any data members that have the Order property of the DataMemberAttribute attribute set. These are ordered by the value of the Order property first and then alphabetically if there is more than one member of a certain Order value. Order values may be skipped.

Reference:

Data Member Order

[https://msdn.microsoft.com/en-us/library/ms729813\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/ms729813(v=vs.110).aspx)

Reference:

DataContractAttribute.Namespace Property

[https://msdn.microsoft.com/en-us/library/system.runtime.serialization.datacontractattribute.namespace\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/system.runtime.serialization.datacontractattribute.namespace(v=vs.110).aspx)

### 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))

---

**Answer: D**

---

Explanation:

The code is using [DataContract] attribute here so need to use DataContractSerializer class.

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() 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

---

**Answer: B**

---

Explanation:

Protected - The type or member can be accessed only by code in the same class or structure, or in a class that is derived from that class.

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

Reference:

<http://msdn.microsoft.com/en-us/library/ms173121.aspx>

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### 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;

---

**Answer: D**

---

Explanation:

As - The as operator is like a cast operation. However, if the conversion isn't possible, as returns null instead of raising an exception.

[http://msdn.microsoft.com/en-us/library/cscsdfbt\(v=vs.110\).aspx](http://msdn.microsoft.com/en-us/library/cscsdfbt(v=vs.110).aspx)

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### Question: 13

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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

---

**Answer: C**

---

Explanation:

The condition `new()` ensures the empty/default constructor and must be the last condition.

When you define a generic class, you can apply restrictions to the kinds of types that client code can use for type arguments when it instantiates your class. If client code tries to instantiate your class by using a type that is not allowed by a constraint, the result is a compile-time error. These restrictions are called constraints. Constraints are specified by using the `where` contextual keyword.

<http://msdn.microsoft.com/en-us/library/d5x73970.aspx>

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## Question: 14

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DRAG DROP

You are developing a class named `ExtensionMethods`.

You need to ensure that the `ExtensionMethods` class implements the `IsEmail()` 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 are

a. 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);
    }
}
```

---

**Answer:**

---

```
public class ExtensionMethods

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);
    }
}
```

Explanation:

Extensions must be in a static class as it kind of a shared source of extension methods. You do not instantiate the class.

The key word “this” is simply a syntax how you tell the compiler, that your method IsUrl is extension for the String object

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### Question: 15

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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

---

**Answer: B, D**

---

Explanation:

Sealed - When applied to a class, the sealed modifier prevents other classes from inheriting from it.

Reference:

[http://msdn.microsoft.com/en-us/library/88c54tsw\(v=vs.110\).aspx](http://msdn.microsoft.com/en-us/library/88c54tsw(v=vs.110).aspx)

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### Question: 16

---

You are developing an application that will convert data into multiple output formats.

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

```
01 public class TabDelimitedFormatter : IOutputFormatter<string>
02 {
03     readonly Func<int, char> suffix = col => col % 2 == 0 ? '\n' : '\t';
04     public string GetOutput(IEnumerator<string> iterator, int recordSize)
05     {
06
07     }
08 }
```

You are developing a code segment that will produce tab-delimited output. All output routines implement the following interface:

```
public interface IOutputFormatter<T>
{
    string GetOutput(IEnumerator<T> iterator, int recordSize);
}
```

You need to minimize the completion time of the GetOutput() method.  
Which code segment should you insert at line 06?

- A. 

```
string output = null;
for (int i = 1; iterator.MoveNext(); i++)
{
    output = string.Concat(output, iterator.Current, suffix(i));
}
return output;
```
- B. 

```
var output = new StringBuilder();
for (int i = 1; iterator.MoveNext(); i++)
{
    output.Append(iterator.Current);
    output.Append(suffix(i));
}
return output.ToString();
```
- C. 

```
string output = null;
for (int i = 1; iterator.MoveNext(); i++)
{
    output = output + iterator.Current + suffix(i);
}
return output;
```
- D. 

```
string output = null;
for (int i = 1; iterator.MoveNext(); i++)
{
    output += iterator.Current + suffix(i);
}
return output;
```

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

---

**Answer: B**

---

Explanation:

A String object concatenation operation always creates a new object from the existing string and the new data.

A StringBuilder object maintains a buffer to accommodate the concatenation of new data. New data is appended to the buffer if room is available; otherwise, a new, larger buffer is allocated, data from the original buffer is copied to the new buffer, and the new data is then appended to the new buffer.

The performance of a concatenation operation for a String or StringBuilder object depends on the frequency of memory allocations. A String concatenation operation always allocates memory, whereas a StringBuilder concatenation operation allocates memory only if the StringBuilder object

buffer is too small to accommodate the new data. Use the String class if you are concatenating a fixed number of String objects. In that case, the compiler may even combine individual concatenation operations into a single operation. Use a StringBuilder object if you are concatenating an arbitrary number of strings; for example, if you're using a loop to concatenate a random number of strings of user input.

[http://msdn.microsoft.com/en-us/library/system.text.stringbuilder\(v=vs.110\).aspx](http://msdn.microsoft.com/en-us/library/system.text.stringbuilder(v=vs.110).aspx)

---

### Question: 17

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You are developing an application by using C#.

The application includes an object that performs a long running process.

You need to ensure that the garbage collector does not release the object's resources until the process completes.

Which garbage collector method should you use?

- A. ReRegisterForFinalize()
- B. SuppressFinalize()
- C. Collect()
- D. WaitForFullGCApproach()

---

**Answer: B**

---

You can use the SuppressFinalize method in a resource class to prevent a redundant garbage collection from being called.

Reference:

GC.SuppressFinalize Method (Object)

[https://msdn.microsoft.com/en-us/library/system.gc.suppressfinalize\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/system.gc.suppressfinalize(v=vs.110).aspx)

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### Question: 18

---

You are creating a class named Employee. The class exposes a string property named EmployeeType. The following code segment defines the Employee class. (Line numbers are included for reference only.)

```
01 public class Employee
02 {
03     internal string EmployeeType
04     {
05         get;
06         set;
07     }
08 }
```

The EmployeeType property value must be accessed and modified only by code within the Employee class or within a class derived from the Employee class.

You need to ensure that the implementation of the EmployeeType property meets the requirements.

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

- A. Replace line 05 with the following code segment:

- protected get;
- B. Replace line 06 with the following code segment:  
private set;
- C. Replace line 03 with the following code segment:  
public string EmployeeType
- D. Replace line 05 with the following code segment:  
private get;
- E. Replace line 03 with the following code segment:  
protected string EmployeeType
- F. Replace line 06 with the following code segment:  
protected set;

---

**Answer: BE**

---

protected string EmpType { get; private set;}

This is a quite common way to work with properties within base classes.  
Incorrect:  
Not D: Cannot be used because of the internal keyword on line 03.

---

### Question: 19

---

You are implementing a method named Calculate that performs conversions between value types and reference types. The following code segment implements the method. (Line numbers are included for reference only.)

```
01 public static void Calculate(float amount)
02 {
03     object amountRef = amount;
04
05     Console.WriteLine(balance);
06 }
```

You need to ensure that the application does not throw exceptions on invalid conversions. Which code segment should you insert at line 04?

- A. int balance = (int) (float)amountRef;
- B. int balance = (int)amountRef;
- C. int balance = amountRef;
- D. int balance = (int) (double) amountRef;

---

**Answer: A**

---

Explicit cast of object into float, and then another Explicit cast of float into int.  
Reference:  
explicit (C# Reference)  
<https://msdn.microsoft.com/en-us/library/xhbhez4.aspx>

---

### Question: 20

---

You are creating a console application by using C#.

You need to access the application assembly.  
Which code segment should you use?

- A. `Assembly.GetAssembly(this);`
- B. `this.GetType();`
- C. `Assembly.Load();`
- D. `Assembly.GetExecutingAssembly();`

---

**Answer: D**

---

Explanation:

`Assembly.GetExecutingAssembly` - Gets the assembly that contains the code that is currently executing.

Reference:

[http://msdn.microsoft.com/en-us/library/system.reflection.assembly.getexecutingassembly\(v=vs.110\).aspx](http://msdn.microsoft.com/en-us/library/system.reflection.assembly.getexecutingassembly(v=vs.110).aspx)

Incorrect:

Not A: `Assembly.GetAssembly` - Gets the currently loaded assembly in which the specified class is defined.

<http://msdn.microsoft.com/en-us/library/system.reflection.assembly.getassembly.aspx>

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