

## DotNET MCQ's

1. You are developing a rental property web application for RentBin 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?

Answers

1. Queue<T>

2. SortedList

3. LinkedList<T>

4. Array<T>

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2. Suppose you want to make a Recipe class to store cooking recipes and you want to sort the Recipes by the MainIngredient property. In that case, which of the following interfaces would probably be most useful?

Answers

1. IDisposable

2. IComparable

3. IComparer

4. ISortable

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3. FrameworkElement is derived from

Answers

1. UIElement

2. ContentControl

3. Application

4. Control

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4. How does assembly versioning in .NET prevent DLL Hell?

Answers

1. The runtime checks to see that only one version of an assembly is on the machine at any one time.

2. .NET allows assemblies to specify the name AND the version of any assemblies they need to run.

3. The compiler offers compile time checking for backward compatibility.

4. It doesn't.

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5. The @Implements directive

Answers

1. imports a namespace into current page or user control

2. assigns a class or virtual path used to type the Master property of a page

3. indicates that a page or user control implements a specified .NET Framework interface

4. none of these above

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6. What determines the connection pool that a connection should use?

1. A connection string

2. The identity or credentials of the user opening the connection

3. The database being connected to

4. The connection object used to connect to the database

Answers

1. 1, 2

2. 1, 2, 3

3. 1, 3

4. 1, 4

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7. In C#, all binary operators are \_\_\_\_\_.

Answers

1. Center-associative

2. Right-associative

3. Left-associative

4. Top-associat

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8. 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?

Answers

1. Internal

2. Protected

3. Private

4. Protected internal

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9. Which serviceDebug property in configuration file of WCF Service needs to set true to view unhandled exception details?

Answers

1. enableException
  2. includeException
  3. includeExceptionDetailInFaults
  4. None of the above
- 

10. Which of the following .NET components can be used to remove unused references from the managed heap?

Answers

1. Common Language Infrastructure
  2. CLR
  3. Garbage Collector
  4. Class Loader
- 

11. .Net assembly's metadata is stored in which file?

Answers

1. .dll
  2. .exe
  3. manifest
  4. core
- 

12. Which of the following are valid .NET CLR JIT performance counters?

- 1.Total memory used for JIT compilation
- 2.Average memory used for JIT compilation
- 3.Number of methods that failed to compile with the standard JIT
- 4.Percentage of processor time spent performing JIT compilation
- 5.Percentage of memory currently dedicated for JIT compilation

## Answers

1. 1, 5

2. 3, 4

3. 1, 2

4. 4, 5

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13. What would be the output for the following set of code?

```
static void Main(string[] args)
```

```
{
```

```
    String obj = "hello";
```

```
    String obj1 = "world";
```

```
    String obj2 = obj;
```

```
    Console.WriteLine (obj.Equals(obj2) + "    " + obj2.CompareTo(obj) );
```

```
    Console.ReadLine();
```

```
}
```

## Answers

1. True True

2. False False

3. True 0

4. False 1

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14. Windows Presentation Foundation (WPF) introduces \_\_\_\_\_ events that can invoke handlers that exist on various listeners in the element tree of an application.

Answers

1. routed
  2. bubbled
  3. child
  4. None
- 

15. 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.)

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?

Answers

1. `Where order.OrderDate.Value != null && order.OrderDate.Value.Year >= year`
  2. `Where order.OrderDate.Value == null && order.OrderDate.Value.Year == year`
  3. `Where order.OrderDate.HasValue && order.OrderDate.Value.Year == year`
  4. `Where order.OrderDate.Value.Year == year`
- 

16. What property is used on the datatable to indicate conflicts after update method is called?

Answers

1. HasErrorConflict
2. HasError
3. HasCollision

#### 4. HasDataError

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17. public class A

```
{  
    protected int x = 123;  
}  
  
class B : A  
{  
    public static void Main()  
    {  
        A a = new A();  
        B b = new B();  
        Console.WriteLine(a.x);  
    }  
}
```

What is the output of above code?

Answers

1. Runtime error
  2. Compile error
  3. 123
  4. none
- 

18. Which utility can be used to compile managed assemblies (like DLL's and EXE) into native code?

Answers

1. gacutil

2. ngen

3. sn

4. dumpbin

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19. Which of the following statements are TRUE about the .NET CLR?

1. It provides a language-neutral development & execution environment.

2. It ensures that an application would not be able to access memory that it is not authorized to access.

3. It provides services to run "managed" applications.

4. The resources are garbage collected.

5. It provides services to run "unmanaged" applications.

Answers

1. Only 1 and 2

2. Only 1, 2 and 4

3. 1, 2, 3, 4

4. Only 4 and 5

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20. What is AuthConfig.cs in ASP.Net MVC ?

Answers

1. AuthConfig.cs is used to configure route settings

2. AuthConfig.cs is used to configure security settings including sites oAuth Login.

3. None

4. All

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21. How do you determine the actual SQL data type of a SqlParameter (the type expected by the SQL Server)?

Answers



1. It is the .NET Framework data type in your application that the parameter represents.
2. It is the type of column or data in SQL Server that the command expects.
3. It is the type of column in a DataTable that it represents.
4. It is any type defined in the SqlDbType enumeration.

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22. Your company uses Visual Studio .NET as its application development platform. You have recently finished development of a class named ShopList using the .NET Framework. The class will include ShopItem objects that have the public properties exhibit below:

1. Name
2. ID
3. DiscountCode You need to enable users of the class to iterate through the ShopList collection, and to list each product's name and ID using the foreach statement. Which of the following code segments will you use to accomplish this task?

Answers

1. `public class ShopList : IEnumerator, IEnumerable { // Class implementation }`
2. `public class ShopList : IBindingList { // Class implementation }`
3. `public class ShopList : IDictionary { // Class implementation }`
4. `public class ShopList : ICollection { // Class implementation }`

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23. You use the Task.Run() method to launch a long-running data processing operation. The data processing operation often fails in times of heavy network congestion.

If the data processing operation fails, a second operation must clean up any results of the first operation.

You need to ensure that the second operation is invoked only if the data processing operation throws an unhandled exception.

What should you do?

Answers

1. Create a TaskCompletionSource<T> object and call the TrySetException() method of the object.

2. Create a task by calling the `Task.ContinueWith()` method.

3. Examine the `Task.Status` property immediately after the call to the `Task.Run()` method.

4. Create a task inside the existing `Task.Run()` method by using the `AttachedToParent` option.

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

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?

Answers

1. `var dataContainer = (IDataContainer)obj`

2. `dynamic dataContainer = obj`

3. `dynamic dataContainer = ob`

4. `var dataContainer = obj as IDataContainer`

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25. `Paybill.aspx` file is used to collect customer contact information like name, address phone no and credit card details. User can select change address option. If user selects changes address option then `changeaddress.aspx` page will be called after submitting page `paybill.aspx`. There isn't any user interface on `changeaddress.aspx`. After processing `changeaddress.aspx` page, success message will be displayed on `paybill.aspx`. we need to write one line of code to process `changeaddress.aspx` page. This line should be:

Answers

1. `Response.redirect ("changeaddress.aspx")`

2. `Server.transfer("changeaddress.aspx")`

3. `Server.writefile("changeaddress.aspx")`

4. `Server.execute("changeaddress.aspx")`

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26. Which Of The Following Namespace Provides The Classes That Allow You To Debug Your Application Step By Step?

Answers

1. System
  2. System.Diagnostics
  3. System.Object
  4. System.Security
- 

27. Which Session Mode stores session Information in Current Application Domain?

Answers

1. InProc
  2. StateServer
  3. SQLServer
  4. Off
- 

28. Which is the way to render Partial View using ASP.Net MVC Razor Engine?

Answers

1. @Html.Partial("\_PartialHeader")
  2. @Html.PartialView("\_PartialHeader")
  3. @Html.PartialHtml("\_PartialHeader")
  4. None of the above
- 

29. WCF binding supports legacy ASMX web service

Answers

1. WebHttpBinding
2. BasicHttpBinding
3. wsHttpBinding
4. None of the above

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30. You are developing a card game for F54. 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?

Answers

1. `int[] filterEmployeeIds = employeeIds.Where(value => value != employeeIdToRemove).OrderBy(x => x).ToArray();`

2. `int[] filterEmployeeIds = employeeIds.Where(value => value != employeeIdToRemove).OrderByDescending(x => x).ToArray();`

3. `int[] filterEmployeeIds = employeeIds.Distinct(value => value != employeeIdToRemove).OrderByDescending(x => x).ToArray();`

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

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31. You are developing an application that uses structured exception handling. The application includes a class named `ExceptionLogger`.

The `ExceptionLogger` class implements a method named `LogException` by using the following code segment:

```
public static void LogException(Exception ex)
```

You have the following requirements:

Log all exceptions by using the `LogException()` method of the `ExceptionLogger` class.

Rethrow the original exception, including the entire exception stack.

Which code segment should you use?

#### Answers

1. `catch (Exception ex) { ExceptionLogger.LogException(ex); throw; }`
  2. `catch (Exception ex) { ExceptionLogger.LogException(ex); throw ex; }`
  3. `catch { ExceptionLogger.LogException(new Exception()); throw; }`
  4. `catch { var ex = new Exception(); throw ex; }`
- 

32. You are developing an ASP.NET MVC 2 application. A view contains a form that allows users to submit their first name. You need to display the value that is submitted, and you must ensure that your code avoids crosssite scripting. Which code segment should you use?

#### Answers

1. `<% Response.Write(HttpUtility.HtmlDecode(Model.FirstName)) %>`
  2. `<%= Model.FirstName %>`
  3. `<%= Model.FirstName %>`
  4. None of the above
- 

33. How to Print value from Controller to View in MVC ?

#### Answers

1. `ViewBag.ECMDetail = "my message";` and in view `@ViewBag.ECMDetail`
  2. `ViewBag.ECMDetail = "my message";` and in view `ViewBag.ECMDetail`
  3. `ViewBag.ECMDetail = "my message";` and in view `ViewBag.Title`
  4. None
- 

34. An application receives JSON data in the following format:

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

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?

#### Answers

1. Return ser.ConvertToType(json))
2. Return ser.DeserializeObject(json))
3. Return ser.Deserialize(json))
4. Return (Name)ser.Serialize(json))

---

35. 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 ?

Answers

1. var fs = File.Open(Filename, FileMode.OpenOrCreate, FileAccess.Read, FileShare.ReadWrite));
2. var fs = File.Open(Filename, FileMode.Open, FileAccess.Read, FileShare.ReadWrite));
3. var fs = File.Open(Filename, FileMode.OpenOrCreate, FileAccess.Read, FileShare.Write));
4. var fs = File.ReadAllLines(Filename));

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36. You are working with WebDevTutorial and building an ADO.NET Entity Framework application for a client. You need to validate the conceptual schema definition language (CSDL), store schema definition language (SSDL), and mapping specification language (MSL) files. Which Entity Data Model tool can you use? (Each correct answer presents a complete solution. Choose all that apply.)

Answers

1. EDM Generator (EdmGen.exe), Update Model Wizard
  2. ADO.NET Entity Data Model Designer, Entity Data Model Wizard
  3. Update Model Wizard
  4. Entity Data Model Wizard
-

37. You are adding a public method named UpdateScore to a public class named ScoreCard.

The code region that updates the score field must meet the following requirements:

It must be accessed by only one thread at a time.

It must not be vulnerable to a deadlock situation.

You need to implement the UpdateScore() method.

What should you do?

Answers

1. Place the code region inside the following lock statement: lock (this) { ... }

2. Add a private named lockObject to the ScoreCard class. Place the code region inside the following lock statement: lock (lockObject) { ... };

3. Apply the following attribute to the UpdateScore() method signature:  
[MethodImpl(MethodImplOptions.Synchronized)]

4. Add a public static object named lockObject to the ScoreCard class. Place the code region inside the following lock statement

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38. What is BundleConfig.cs in ASP.Net MVC ?

Answers

1. BundleConfig.cs in MVC is used to register filters for different purposes.

2. BundleConfig.cs in MVC is used to register bundles used by the bundling and minification, several bundles are added by default like jQuery, jQueryUI, jQuery validation, Modernizr, default CSS references.

3. All

4. None

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39. What does the following declaration specify?

MethodInfo[] GetMethods()

Answers

1. Returns an array of MethodInfo objects

2. Returns a list of the public methods supported by the type by using GetMethods()

3. Both Returns an array of MethodInfo objects & Returns a list of the public methods supported by the type by using GetMethods()

4. None of the mentioned

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40. How many types of authentication ASP.NET supports?

Answers

1. Windows Authentication

2. .NET Passport Authentication

3. Forms Authentication

4. All of the above