



70-483^{Q&As}

Programming in C#

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QUESTION 1

You are implementing a new method named `ProcessData`. The `ProcessData()` method calls a third-party component that performs a long-running operation to retrieve stock information from a web service.

The third-party component uses the `IAsyncResult` pattern to signal completion of the long-running operation so that the UI can be updated with the new values.

You need to ensure that the calling code handles the long-running operation as a `System.Threading.Tasks.Task` object to avoid blocking the UI thread.

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

Choose two.)

- A. Create a `TaskCompletionSource` object.
- B. Call the component by using the `TaskFactory.FromAsync()` method.
- C. Apply the following attribute to the `ProcessData()` method signature: `[MethodImpl(MethodImplOptions.Synchronized)]`
- D. Apply the `async` modifier to the `ProcessData()` method signature.

Correct Answer: AB

Explanation: A: In many scenarios, it is useful to enable a `Task` to represent an external asynchronous operation. `TaskCompletionSource` is provided for this purpose. It enables the creation of a task that can be handed out to consumers, and those consumers can use the members of the task as they would any other. However, unlike most tasks, the state of a task created by a `TaskCompletionSource` is controlled explicitly by the methods on `TaskCompletionSource`. This enables the completion of the external asynchronous operation to be propagated to the underlying `Task`. The separation also ensures that consumers are not able to transition the state without access to the corresponding `TaskCompletionSource`.

B: `TaskFactory.FromAsync` Method

Creates a `Task` that represents a pair of begin and end methods that conform to the Asynchronous Programming Model pattern. Overloaded.

Example:

`TaskFactory.FromAsync` Method (`IAsyncResult`, `Action`) Creates a `Task` that executes an end method action when a specified `IAsyncResult` completes.

Note:

* `System.Threading.Tasks.Task`

Represents an asynchronous operation.

QUESTION 2

You need to write a method that combines an unknown number of strings. The solution must minimize the amount of memory used by the method when the method executes.



What should you include in the code?

- A. The String.Concat method
- B. The StringBuilder.Append method
- C. The + operator
- D. The += operator

Correct Answer: B

Explanation: StringBuilder is the best method when there are an unknown number of strings.

Incorrect:

Not A: Compared to the StringBuilder.Append method, the String.Concat method uses more resources.

String concatenation creates a new string, needing more memory, and is generally considered slow.

Not D: += is not used to append strings.

QUESTION 3

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 year parameter.

You need to ensure that the application meets the requirements. Which code segment should you insert at line 08?



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

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 4

DRAG DROP

You have the following code:

You need to display all of the vehicles that start with the letter "A".

How should you complete the code? To answer, drag the appropriate code elements to the correct targets. Each code element 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. NOTE: Each correct selection is worth one point.

Select and Place:

**Code Segments**

Array

from

include

List

select

where

Answer Area

Target 1:

Target 2:

Target 3:

Target 4:

Correct Answer:

Code Segments

from

include

Answer Area

Target 1:

Target 2:

Target 3:

Target 4:

select

Array

where

List

QUESTION 5**DRAG DROP**

You are creating a method that saves information to a database.

You have a static class named LogHelper. LogHelper has a method named Log to log the exception.

You need to use the LogHelper Log method to log the exception raised by the database server. The solution must ensure that the exception can be caught by the calling method, while preserving the original stack trace.

How should you write the catch block? (Develop the solution by selecting and ordering the required code snippets. You may not need all of the code snippets.)



Select and Place:

<code>catch {</code>	
<code>catch (SQLException ex) {</code>	
<code>catch (FileNotFoundException ex) {</code>	
<code>throw;</code>	
<code>}</code>	
<code>throw new FileNotFoundException();</code>	
<code>throw ex;</code>	
<code>LogHelper.Log(ex);</code>	
<code>throw new SQLException();</code>	

Correct Answer:

<code>catch {</code>	<code>catch (SQLException ex) {</code>
	<code>LogHelper.Log(ex);</code>
	<code>throw;</code>
<code>catch (FileNotFoundException ex) {</code>	<code>}</code>
<code>throw new FileNotFoundException();</code>	
<code>throw ex;</code>	
<code>throw new SQLException();</code>	



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