



70-483^{Q&As}

Programming in C#

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**QUESTION 1**

You are implementing a method named ProcessData that performs a long-running task. The ProcessData() method has the following method signature:

```
public void ProcessData(List values, CancellationTokenSource source, CancellationToken token)
```

If the calling code requests cancellation, the method must perform the following actions:

Cancel the long-running task.

Set the task status to TaskStatus.Canceled.

You need to ensure that the ProcessData() method performs the required actions. Which code segment should you use in the method body?

- A. if (token.IsCancellationRequested) return;
- B. throw new AggregateException();
- C. token.ThrowIfCancellationRequested();
- D. source.Cancel();

Correct Answer: C

Explanation: The CancellationToken.ThrowIfCancellationRequested method throws a OperationCanceledException if this token has had cancellation requested.

This method provides functionality equivalent to:

C#

```
if (token.IsCancellationRequested)
    throw new OperationCanceledException(token);
```

Reference: CancellationToken.ThrowIfCancellationRequested Method ()

[https://msdn.microsoft.com/enus/library/system.threading.cancellationtoken.throwifcancellationrequested\(v=vs.110\).aspx](https://msdn.microsoft.com/enus/library/system.threading.cancellationtoken.throwifcancellationrequested(v=vs.110).aspx)

QUESTION 2

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 3

You write the following method (line numbers are included for reference only):



```
01 public static List<string> TestIfWebSite(string url)
02 {
03     const string pattern = @"http://(www\.)?([^\.]+)\.com";
04     List<string> result = new List<string>();
05
06     MatchCollection myMatches = Regex.Matches(url, pattern);
07     ...
08     return result;
09 }
```

You need to ensure that the method extracts a list of URLs that match the following pattern:

@http://(www\.)?([^\.]+)\.com;

Which code should you insert at line 07?

- A. `result = (List<string>) myMatches.GetEnumerator();`
- B. `result = (List<string>) myMatches.SyncRoot;`
- C. `result = (from System.Text.RegularExpressions.Match m in myMatches
select m.Value).ToList<string>();`
- D. `result = (from System.Text.RegularExpressions.Match m in myMatches
where !m.Success
select m.Value).ToList<string>();`

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

Explanation: The MatchCollection.GetEnumerator method returns an enumerator that iterates through a collection.

Note:

The MatchCollection Class represents the set of successful matches found by iteratively applying a regular expression pattern to the input string.

Incorrect:

Not B: The ICollection.SyncRoot property gets an object that can be used to synchronize access to the ICollection.

Reference: MatchCollection.GetEnumerator Method [https://msdn.microsoft.com/en](https://msdn.microsoft.com/en-us/library/system.text.regularexpressions.matchcollection.getenumerator(v=vs.110).aspx)

[us/library/system.text.regularexpressions.matchcollection.getenumerator\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/system.text.regularexpressions.matchcollection.getenumerator(v=vs.110).aspx)

**QUESTION 4**

You are creating an application that reads from a database.

You need to use different databases during the development phase and the testing phase by using conditional compilation techniques.

What should you do?

- A. Configure the Define TRACE constant setting in Microsoft Visual Studio.
- B. Specify the /define compiler option.
- C. Run the Assembly Linker tool from the Windows Software Development Kit (Windows SDK).
- D. Decorate the code by using the [assembly:AssemblyDelaySignAttribute(true)] attribute.

Correct Answer: B

Explanation: You can specify the compiler settings for your application in several ways:

*

The property pages

*

The command line

*

#CONST (for Visual Basic) and #define (for C#)

Note: You can have either the Trace or Debug conditional attribute turned on for a build, or both, or neither. Thus, there are four types of build: Debug, Trace, both, or neither. Some release builds for production deployment might contain neither; most debugging builds contain both. Reference: How to: Compile Conditionally with Trace and Debug [https://msdn.microsoft.com/en-us/library/64yxa344\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/64yxa344(v=vs.110).aspx)

QUESTION 5

You are developing an application that includes methods named ConvertAmount and TransferFunds.

You need to ensure that the precision and range of the value in the amount variable is not lost when the TransferFunds() method is called.

Which code segment should you use?



- A.

```
private static void ConvertAmount(float amount)
{
    TransferFunds(amount);
}
private static void TransferFunds(int funds)
{
    ...
    Console.WriteLine(funds);
}
```
- B.

```
private static void ConvertAmount(float amount)
{
    TransferFunds((int)funds);
}
private static void TransferFunds(float funds)
{
    ...
}
```
- C.

```
private static void ConvertAmount(float amount)
{
    TransferFunds(amount);
}
private static void TransferFunds(float funds)
{
    ...
}
```
- D.

```
private static void ConvertAmount(float amount)
{
    TransferFunds(Double.Parse(amount));
}
private static void TransferFunds(double funds)
{
    ...
    Console.WriteLine(funds);
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

The double keyword signifies a simple type that stores 64-bit floating-point values. The float keyword signifies a simple type that stores 32-bit floating-point values. References: <https://docs.microsoft.com/en-us/dotnet/csharp/language-reference/keywords/double>



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