



70-483^{Q&As}

Programming in C#

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**QUESTION 1**

You are developing an application by using C#. You have the following requirements:

1.

Support 32-bit and 64-bit system configurations.

2.

Include pre-processor directives that are specific to the system configuration.

3.

Deploy an application version that includes both system configurations to testers.

4.

Ensure that stack traces include accurate line numbers.

You need to configure the project to avoid changing individual configuration settings every time you deploy the application to testers.

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

A. Update the platform target and conditional compilation symbols for each application configuration.

B. Create two application configurations based on the default Release configuration.

C. Optimize the application through address rebasing in the 64-bit configuration.

D. Create two application configurations based on the default Debug configuration.

Correct Answer: AD

Explanation: A: "include pre-processor directives that are specific to the system configuration"

system configuration here refers to bitness ie 32-bit or 64-bit so the developer wants to use in code different pre-processor directives for 32/64 bit, this is achieved by defining and using conditional compilation symbols for different platform

targets (platform target is VS term for bitness ie for 32/64 bit).

D (not B): The question about testing, debugging, stack trace, line numbers etc. There is not a single word about release

QUESTION 2

You have a collection of Product objects named products. Each Product has a category.

You need to determine the longest name for each category.

You write the following code.



```
var longestNamesByCategory = products.GroupBy(p => p.Category).  
    Select(g => new {Category = g.Key, LongestName = g.Select  
(p => p.Name).Target 1 ((s, t) => t.Length > s.Length ? t : s)});
```

Which keyword should you use for Target 1?

- A. Group
- B. Where
- C. Aggregate
- D. Select

Correct Answer: B

QUESTION 3

You have an application that will send confidential information to a Web server. You need to ensure that the data is encrypted when it is sent across the network. Which class should you use?

- A. CryptoStream
- B. AuthenticatedStream
- C. PipeStream
- D. NegotiateStream

Correct Answer: A

Explanation: The CryptoStream Class defines a stream that links data streams to cryptographic transformations.

The common language runtime uses a stream-oriented design for cryptography. The core of this design is CryptoStream.

Reference: CryptoStream Class

[https://msdn.microsoft.com/enus/library/system.security.cryptography.cryptostream\(v=vs.110\).aspx](https://msdn.microsoft.com/enus/library/system.security.cryptography.cryptostream(v=vs.110).aspx)

QUESTION 4

You are implementing a method named GetValidPhoneNumbers. The GetValidPhoneNumbers() method processes a list of string values that represent phone numbers.

The GetValidPhoneNumbers() method must return only phone numbers that are in a valid format.

You need to implement the GetValidPhoneNumbers() method.

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



- A.

```
private static List<String> GetValidPhoneNumbers(string input, string pattern)
{
    var regex = new Regex(pattern);
    var matches = regex.Matches(input);
    var validPhoneNumbers = new List<String>();
    foreach (Match match in matches)
    {
        if (match.Success)
        {
            validPhoneNumbers.Add(match.Value);
        }
    }
    return validPhoneNumbers;
}
```
- B.

```
private static List<String> GetValidPhoneNumbers(string input, string pattern)
{
    var regex = new Regex(pattern);
    var matches = regex.Matches(input);
    return (from Match match in matches where match.Success select match.Value).ToList();
}
```
- C.

```
private static List<String> GetValidPhoneNumbers(string input, string pattern)
{
    var regex = new Regex(pattern);
    var matches = regex.Matches(input);
    return (from Match match in matches where match.Success select match.Success.ToString()).ToList();
}
```
- D.

```
private static List<String> GerValidPhoneNumbers(string input, string pattern)
{
    var regex = new Regex(pattern);
    var matches = regex.Matches(input);
    var validPhoneNumbers = new List<String>();
    foreach (Match match in matches)
    {
        if (!match.Success)
        {
            validPhoneNumbers.Add(match.Value);
        }
    }
    return validPhoneNumbers;
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: AB

Explanation: * Regex.Matches

Searches an input string for all occurrences of a regular expression and returns all the matches.

*

MatchCollection

Represents the set of successful matches found by iteratively applying a regular expression pattern to the input string.



The collection is immutable (read-only) and has no public constructor. The `Regex.Matches` method returns a `MatchCollection` object.

*

List.Add Method

Adds an object to the end of the List.

QUESTION 5

DRAG DROP

You are developing a class named `ExtensionMethods`.

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

Select and Place:

```
public static class ExtensionMethods
public class ExtensionMethods
this String str
String str
protected static class ExtensionMethods

public static bool IsEmail(
var regex = new Regex(@"^([\w\.-]+)@([\w\.-]+)(\.[\w]{2,3})+$");
return regex.IsMatch(str);
}
```

Correct Answer:

```
public class ExtensionMethods
String str

public static bool IsEmail(
this String str
var regex = new Regex(@"^([\w\.-]+)@([\w\.-]+)(\.[\w]{2,3})+$");
return regex.IsMatch(str);
}
```



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