



70-483^{Q&As}

Programming in C#

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**QUESTION 1**

You are developing an application that will transmit large amounts of data between a client computer and a server. You need to ensure the validity of the data by using a cryptographic hashing algorithm. Which algorithm should you use?

- A. DES
- B. HMACSHA512
- C. RNGCryptoServiceProvider
- D. ECDsa

Correct Answer: B

Explanation: The HMACSHA512 class computes a Hash-based Message Authentication Code (HMAC) using the SHA512 hash function. Reference:

[https://msdn.microsoft.com/enus/library/system.security.cryptography.hmacsha512\(v=vs.110\).aspx](https://msdn.microsoft.com/enus/library/system.security.cryptography.hmacsha512(v=vs.110).aspx)

QUESTION 2**HOTSPOT**

You have the following code:



```
[DataContract (Name="Individual")]  
public class Individual  
{  
    private string m_FirstName;  
    private string m_LastName;  
  
    [DataMember]  
    public string FirstName  
    {  
        get { return m_FirstName; }  
        set { m_FirstName = value; }  
    }  
  
    [DataMember (EmitDefaultValue=false)]  
    public string LastName  
    {  
        get { return m_LastName; }  
        set { m_LastName = value; }  
    }  
  
    public Individual()  
    {  
    }  
  
    public Individual(string firstName, string lastName)  
    {  
        m_FirstName = firstName;  
        m_LastName = lastName;  
    }  
}
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Hot Area:

	Yes	No
LastName will be serialized after firstName.	<input type="radio"/>	<input type="radio"/>
The namespace used in the serialized XML will be Individual.	<input type="radio"/>	<input type="radio"/>
The lastName node will always appear in the serialized XML.	<input type="radio"/>	<input type="radio"/>

Correct Answer:



	Yes	No
LastName will be serialized after firstName.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The namespace used in the serialized XML will be Individual.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
The lastName node will always appear in the serialized XML.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

QUESTION 3

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> 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;
}
```

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 4

An application is throwing unhandled `NullReferenceException` and `FormatException` errors. The stack trace shows that the exceptions occur in the `GetWebResult()` method. The application includes the following code to parse XML data retrieved from a web service. (Line numbers are included for reference only.)

```
01 int GetWebResult(XElement result)
02 {
03     return int.Parse(result.Element("response").Value);
04 }
```

You need to handle the exceptions without interfering with the existing error-handling infrastructure.

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

A. Replace line 03 with the following code segment:

```
int returnValue;
int.TryParse(result.Element("response").Value, out returnValue);
return returnValue;
```

B. Replace line 03 with the following code segment:

```
return int.ParseOptions.Safe(result.Element("response").Value);
```

C. Register an event handler with `AppDomain.CurrentDomain.UnhandledException`.

D. Use a **try...catch** statement to handle the exceptions in the **GetWebResult()** method.

A. Option A

B. Option B

C. Option C

D. Option D



Correct Answer: AC

Explanation: A: The TryParse method is like the Parse method, except the TryParse method does not throw an exception if the conversion fails. It eliminates the need to use exception handling to test for a FormatException in the event that s is invalid and cannot be successfully parsed.

C: UnhandledException event handler If the UnhandledException event is handled in the default application domain, it is raised there for any unhandled exception in any thread, no matter what application domain the thread started in. If the thread started in an application domain that has an event handler for UnhandledException, the event is raised in that application domain.

QUESTION 5

DRAG DROP

You have an application that uses paging. Each page displays five items from a list.

You need to display the second page.

Which three code blocks should you use to develop the solution? To answer, move the appropriate code blocks from the list of code blocks to the answer area and arrange them in the correct order.

Select and Place:

Code Snippets	Answer Area
<input type="text" value=".Take (1)"/>	1 <input type="text"/>
<input type="text" value=".Skip (2)"/>	2 <input type="text"/>
<input type="text" value=".First (5)"/>	3 <input type="text"/>
<input type="text" value=".Skip (5)"/>	
<input type="text" value=".Skip (1)"/>	
<input type="text" value=".Take (5)"/>	
<input type="text" value="var page = items"/>	
<input type="text" value="int page = items"/>	

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Correct Answer:

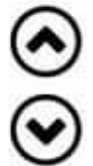


Code Snippets

<code>.Take (1)</code>
<code>.Skip (2)</code>
<code>.First (5)</code>
<code>.Skip (1)</code>
<code>var page = items</code>

Answer Area

1	<code>int page = items</code>
2	<code>.Skip (5)</code>
3	<code>.Take (5)</code>



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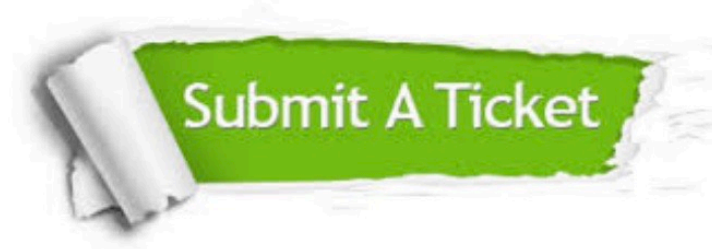
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