



70-483^{Q&As}

Programming in C#

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QUESTION 1

You are developing an application by using C#.

The application includes an object that performs a long running process.

You need to ensure that the garbage collector does not release the object's resources until the process completes.

Which garbage collector method should you use?

- A. `WaitForFullGCComplete()`
- B. `SuppressFinalize()`
- C. `WaitForFullGCApproach()`
- D. `WaitForPendingFinalizers()`

Correct Answer: B

Explanation: You can use the `SuppressFinalize` method in a resource class to prevent a redundant garbage collection from being called.

Reference: `GC.SuppressFinalize` Method (Object)

[https://msdn.microsoft.com/en-us/library/system.gc.suppressfinalize\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/system.gc.suppressfinalize(v=vs.110).aspx)

QUESTION 2

You have the following code:

```
List<Int32> items = new List<int>() {  
    100,  
    95,  
    00,  
    75,  
    95  
};
```

You need to retrieve all of the numbers from the `items` variable that are greater than 80. Which code should you use?



- A.

```
var result = from i in items
              where i > 80
              select i;
```
- B.

```
var result = from i in items
              groupby i into grouped
              where grouped.Key > 80
              select i;
```
- C.

```
var result = items.Take(80);
```
- D.

```
var result = items.Skip(80);
```

- A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: A

QUESTION 3

An application receives JSON data in the following format:

```
{ "FirstName" : "David",
  "LastName" : "Jones",
  "Values" : [0, 1, 2] }
```

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



```
01 public class Name
02 {
03     public int[] Values { get; set; }
04     public string FirstName { get; set; }
05     public string LastName { get; set; }
06 }
07 public static Name ConvertToName(string json)
08 {
09     var ser = new JavaScriptSerializer();
10
11 }
```

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?

- A. Return ser.ConvertToType(json);
- B. Return ser.DeserializeObject(json);
- C. Return ser.Deserialize(json);
- D. Return (Name)ser.Serialize(json);

Correct Answer: C

JavaScriptSerializer.Deserialize - Converts the specified JSON string to an object of type T.
<http://msdn.microsoft.com/en-us/library/bb355316.aspx>

QUESTION 4

You are developing a Windows Forms (WinForms) application. The application displays a TreeView that has 1,000 nodes.

You need to ensure that if a user expands a node, and then collapses the TreeView, the node object is kept in memory unless the Garbage Collector requires additional memory.

Which object should you use to store the node?

- A. GC
- B. Handle
- C. Cache
- D. WeakReference

Correct Answer: D

Explanation: References: <https://msdn.microsoft.com/en-us/library/ms404247.aspx>

**QUESTION 5**

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. RSA
- B. HMACSHA256
- C. Aes
- D. RNGCryptoServiceProvider

Correct Answer: B

Explanation: The HMACSHA256 class computes a Hash-based Message Authentication Code (HMAC) by using the SHA256 hash function.

Reference: [https://msdn.microsoft.com/enus/library/system.security.cryptography.hmacsha256\(v=vs.110\).aspx](https://msdn.microsoft.com/enus/library/system.security.cryptography.hmacsha256(v=vs.110).aspx)

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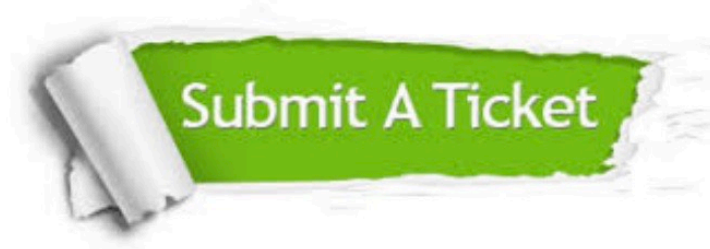
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