DUMPSARENA

Programming in C#

Microsoft 70-483

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Topic Break Down

Topic	No. of Questions
Topic 1, Volume A	92
Topic 2, Volume B	188
Total	280

QUESTION NO: 1

You are developing an application. The application includes classes named Employee and Person and an interface named IPerson.

The Employee class must meet the following requirements:

▪ It must either inherit from the Person class or implement the IPerson interface. ▪ It must be inheritable by other classes in the application.

You need to ensure that the Employee class meets the requirements.

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

A.
```
sealed class Employee : Person
{
   ...
}
```

B.
```
abstract class Employee : Person
{
   ...
}
```

C.
```
sealed class Employee : IPerson
{
   ...
}
```

D.
```
abstract class Employee : IPerson
{
   ...
}
```

A. Option A

B. Option B

C. Option C

D. Option D

ANSWER: B D

Explanation:

Sealed - When applied to a class, the sealed modifier prevents other classes from inheriting from it.

References: http://msdn.microsoft.com/en-us/library/88c54tsw(v=vs.110).aspx

QUESTION NO: 2

You have the following code:

```
List<Int32> items = new List<int>() {
    100,
    95,
    80,
    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 = items.Take(80);
```

C.
```
var result = items.First(i => i > 80);
```

D.
```
var result = items.Any(i => i > 80);
```

A. Option A

B. Option B

C. Option C

D. Option D

ANSWER: A

QUESTION NO: 3 - (DRAG DROP)

DRAG DROP

You are developing an application that implements a set of custom exception types. You declare the custom exception types by using the following code segments:

```
public class ContosoException : System.Exception {...}
public class ContosoDbException : Contoso.Exception {...}
public class ContosoValidationException : Contoso.Exception {...}
```

The application includes a function named DoWork that throws .NET Framework exceptions and custom exceptions. The application contains only the following logging methods:

```
static void Log (Exception ex) {...}
static void Log (ContosoException ex) {...}
static void Log (ContosoValidationException ex) {...}
```

The application must meet the following requirements:

▪ When ContosoValidationException exceptions are caught, log the information by using the static void Log(ContosoValidationException ex) method.

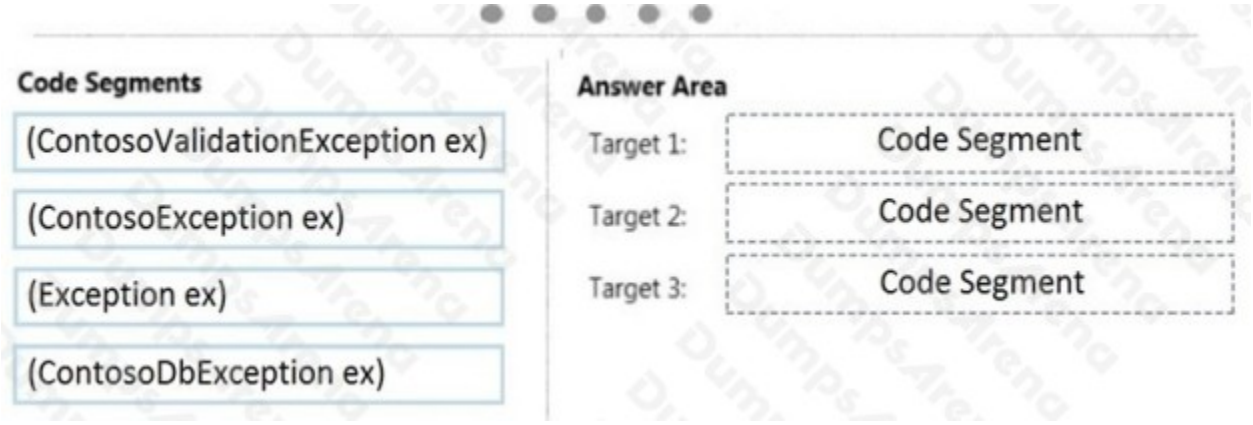
▪ When ContosoDbException or other ContosoException exceptions are caught, log the information by using the static void Log(ContosoException ex) method. ▪ When generic exceptions are caught, log the information by using the static void Log(Exception ex) method.

You need to meet the requirements.

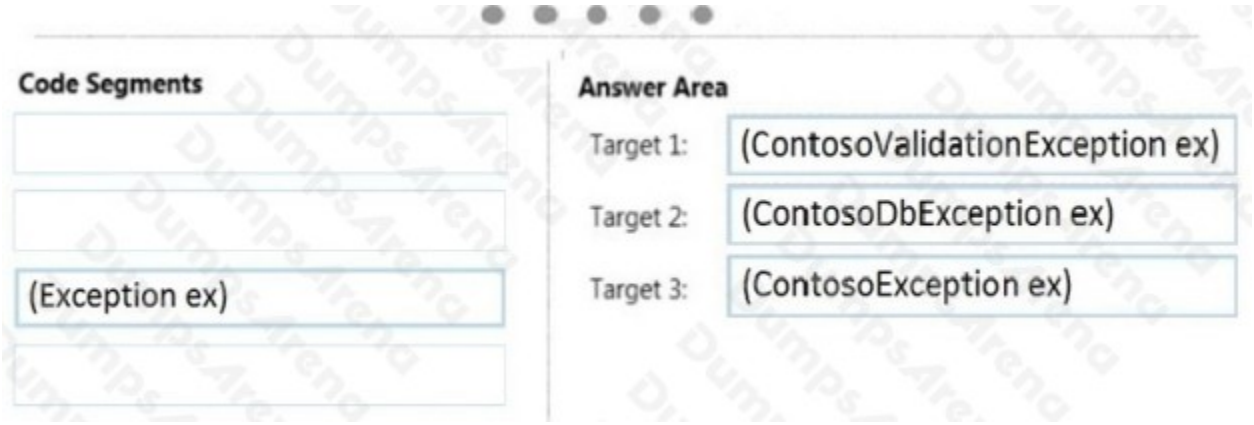
You have the following code:

```
try
{
    DoWork();
}
catch Target1
{
    Log(ex);
}
catch Target2
{
    Log(ex);
}
catch Target3
{
    Log(ex);
}
```

Which code segments should you include in Target 1, Target 2 and Target 3 to complete the code? (To answer, drag the appropriate code segments to the correct targets 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:



ANSWER:



Explanation:

Catch the most specific exception first.

QUESTION NO: 4

You are modifying an application that processes loans. The following code defines the Loan class. (Line numbers are included for reference only.)

```
01 public class Loan
02 {
03
04   private int _term;
05   private const int MaximumTerm = 10;
06   private const decimal Rate = 0.034m;
07   public int Term
08   {
09     get
10     {
11       return _term;
12     }
13     set
14     {
15       if (value <= MaximumTerm)
16       {
17         _term = value;
18       }
19       else
20       {
21
22       }
23     }
24   }
25 }
26 public delegate void MaximumTermReachedHandler(object source, EventArgs e);
```

Loans are restricted to a maximum term of 10 years. The application must send a notification message if a loan request exceeds 10 years.

You need to implement the notification mechanism.

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

A. Insert the following code segment at line 03:

```
public string MaximumTermReachedEvent { get; set; }
```

B. Insert the following code segment at line 21:

```
if (OnMaximumTermReached != null)
{
  OnMaximumTermReached(this, new EventArgs());
}
```

C. Insert the following code segment at line 03:

```
private string MaximumTermReachedEvent;
```

D. Insert the following code segment at line 03:

```
public event MaximumTermReachedHandler OnMaximumTermReached;
```

E. Insert the following code segment at line 21:

```
value = MaximumTerm;
```

F. Insert the following code segment at line 21:

```
value = 9;
```

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

F. Option F

ANSWER: B D

QUESTION NO: 5 - (DRAG DROP)

DRAG DROP

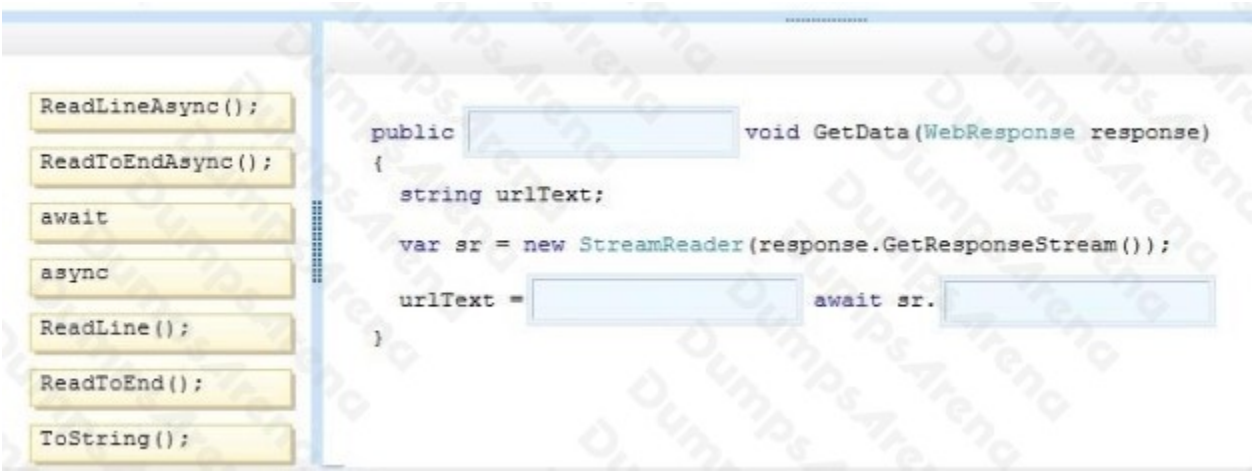
You are developing an application that will include a method named GetData. The GetData() method will retrieve several lines of data from a web service by using a System.IO.StreamReader object.

You have the following requirements:

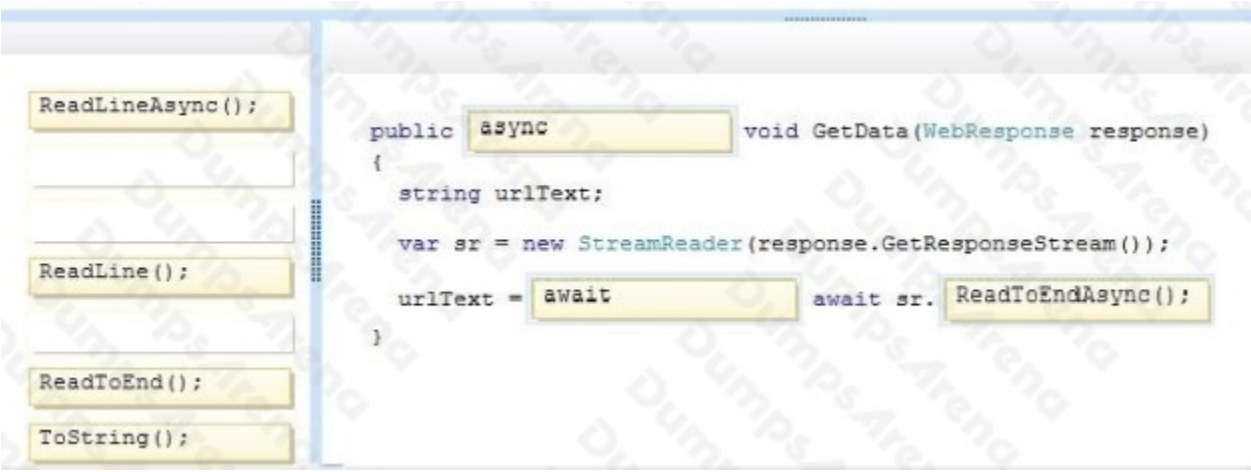
▪ The GetData() method must return a string value that contains the entire response from the web service. ▪ The application must remain responsive while the GetData() method runs.

You need to implement the GetData() method.

How should you complete the relevant code? (To answer, drag the appropriate objects to the correct locations in the answer area. Each object 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:



ANSWER:



QUESTION NO: 6

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. collect()

D. RemoveMemoryPressure()

ANSWER: B

QUESTION NO: 7

You are developing an application that uses several objects. The application includes the following code segment. (Line numbers are included for reference only.)

```
01 private bool IsNull(object obj)
02 {
03
04   return false;
05 }
```

You need to evaluate whether an object is null.

Which code segment should you insert at line 03?

A.
```
if (null = obj)
{
  return true;
}
```

B.
```
if (null == obj)
{
  return true;
}
```

C.
```
if (null)
{
  return true;
}
```

D.
```
if (!obj)
{
  return true;
}
```

A. Option A

B. Option B

C. Option C

D. Option D

ANSWER: B

Explanation:

Use the == operator to compare values and in this case also use the null literal.

QUESTION NO: 8

You are developing an assembly that will be used by multiple applications.

You need to install the assembly in the Global Assembly Cache (GAC).

Which two actions can you perform to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Use the Assembly Registration tool (regasm.exe) to register the assembly and to copy the assembly to the GAC.

B. Use the Strong Name tool (sn.exe) to copy the assembly into the GAC.

C. Use Microsoft Register Server (regsvr32.exe) to add the assembly to the GAC.

D. Use the Global Assembly Cache tool (gacutil.exe) to add the assembly to the GAC.

E. Use Windows Installer 2.0 to add the assembly to the GAC.

ANSWER: D E

Explanation:

There are two ways to deploy an assembly into the global assembly cache:

Use an installer designed to work with the global assembly cache. This is the preferred option for installing assemblies into the global assembly cache. Use a developer tool called the Global Assembly Cache tool (Gacutil.exe), provided by the Windows Software Development Kit (SDK).

Note:

In deployment scenarios, use Windows Installer 2.0 to install assemblies into the global assembly cache. Use the Global Assembly Cache tool only in development scenarios, because it does not provide assembly reference counting and other features provided when using the Windows Installer.

References: http://msdn.microsoft.com/en-us/library/yf1d93sz%28v=vs.110%29.aspx

QUESTION NO: 9 - (HOTSPOT)

HOTSPOT

You are implementing a library method that accepts a character parameter and returns a string.

If the lookup succeeds, the method must return the corresponding string value. If the lookup fails, the method must return the value "invalid choice."

You need to implement the lookup algorithm.

How should you complete the relevant code? (To answer, select the correct keyword in each drop-down list in the answer area.)
Hot Area:

Work Area

```
public string GetResponse(char letter)
{
  string response;
  [ ] (letter)
      case
      if
      switch
  {
    [ ] 'a':
        case
        default
        else
        if
      response = "animal";
      break;
    [ ] 'm':
        case
        default
        else
        if
      response = "mineral";
      break;
    [ ] :
        case
        default
        else
        if
      response = "invalid choice";
      break;
  }
  return response;
}
```

ANSWER:

Work Area

```
public string GetResponse(char letter)
{
  string response;
  [switch] (letter)
  {
    [case] 'a':
      response = "animal";
      break;
    [case] 'm':
      response = "mineral";
      break;
    [default]:
      response = "invalid choice";
      break;
  }
  return response;
}
```

Explanation:

References: http://msdn.microsoft.com/en-us/library/06tc147t(v=vs.110).aspx

QUESTION NO: 10

You are developing an application that includes the following code segment. (Line numbers are included for reference only.)

```
01 class Customer
02 {
03   public string CompanyName { get; set; }
04   public string Id { get; set; }
05 }
06 const string sqlSelectCustomers = "SELECT CustomerID, CompanyName FROM Customers";
07 private static IEnumerable<Customer> GetCustomers(string sqlConnectionString)
08 {
09   List<Customer> customers = new List<Customer>();
10   SqlConnection sqlConnection = new SqlConnection(sqlConnectionString);
11   using (sqlConnection)
12   {
13     SqlCommand sqlCommand = new SqlCommand(sqlSelectCustomers, sqlConnection);
14
15     using (SqlDataReader sqlDataReader = sqlCommand.ExecuteReader())
16     {
17
18       {
19         Customer customer = new Customer();
20         customer.Id = (string)sqlDataReader["CustomerID"];
21         customer.CompanyName = (string)sqlDataReader["CompanyName"];
22         customers.Add(customer);
23       }
24     }
25   }
26   return customers;
27 }
```

The GetCustomers() method must meet the following requirements:

- Connect to a Microsoft SQL Server database.
- Populate Customer objects with data from the database.
- Return an IEnumerable collection that contains the populated Customer objects.

You need to meet the requirements.

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

A. Insert the following code segment at line 17: while (sqlDataReader.GetValues())

B. Insert the following code segment at line 14: sqlConnection.Open();

C. Insert the following code segment at line 14: sqlConnection.BeginTransaction();

D. Insert the following code segment at line 17: while (sqlDataReader.Read())

E. Insert the following code segment at line 17: while (sqlDataReader.NextResult())

ANSWER: B D

Explanation:

SqlConnection.Open - Opens a database connection with the property settings specified by the ConnectionString.
SqlDataReader.Read - Advances the SqlDataReader to the next record.

References:

http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqlconnection.open.aspx http://msdn.microsoft.com/en-us/library/system.data.sqlclient.sqldatareader.read.aspx

QUESTION NO: 11

You are creating a class named Loan.

The Loan class must meet the following requirements:

- Include a member that represents the rate for a Loan instance.
- Allow external code to assign a value to the rate member.
- Restrict the range of values that can be assigned to the rate member.

You need to implement the rate member to meet the requirements.

In which form should you implement the rate member?

A. public static property

B. public property

C. public static field

D. protected field

ANSWER: B

QUESTION NO: 12 - (HOTSPOT)

HOTSPOT

You have an existing order processing system that accepts .xml files, The following code shows an example of a properly formatted order in XML:

```
<Order OrderID="42">
  <Customer>Ben Smith</Customer>
  <CustomerID>206</CustomerID>
  <OrderDate>2013-04-19T09:13:14.7265994-05:00</OrderDate>
</Order>
```

You create the following class that will be serialized:

```
[DataContract()]
public class Order
{
  [DataMember()]
  public Int32 OrderID { get; set; }

  [DataMember(Name = "Customer")]
  public String CustomerName { get; set; }

  [DataMember()]
  private Int32 CustomerID { get; set; }

  public DateTime OrderDate { get; set; }
}
```

For each of the following properties, select Yes if the property is serialized according to the defined schema. Otherwise, select No.

Hot Area:

ANSWER:

QUESTION NO: 13

You have the following class definition.

```
public class ProcessManagement
{
    public int DegreeOfParallelism;
    private int NumberOfTasks = 0;
    public void SpawnTasks()
    {
        if (DegreeOfParallelism>20) { DegreeOfParallelism = 20};
        while (NumberOfTasks != DegreeOfParallelism)
        {
            CreateNewTask();
            NumberOfTasks++;
        }
    }
}
```

You discover that when you execute the following code, the SpawnTasks method enters an infinite loop.

```
ProcessManagement pm = new ProcessManagement();
pm.DegreeOfParallelism = -1;
pm.SpawnTasks();
```

You need to prevent the SpawnTasks method from entering an infinite loop.

Which two changes should you make to the code? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Add a property to the ProcessManagement class. Modify the property to allow only positive values to be stored in the DegreeOfParallelism member variable.

B. Add a property to the ProcessManagement class. Modify the property to allow only positive values to be stored in the NumberOfTasks member variable.

C. Change the accessor of the ProcessManagement class to internal.

D. Change the accessor of the DegreeOfParallelism member variable to private.

E. Change the accessor of the SpawnTasks method to private.

ANSWER: A B

QUESTION NO: 14

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

ANSWER: D

Explanation:

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

QUESTION NO: 15

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. ReRegisterForFinalize()

B. SuppressFinalize()

C. Collect()

D. WaitForFullGCApproach()

ANSWER: B