Vendor: Microsoft

Exam Code: 70-483

Exam Name: Microsoft Programming in C#

Questions and Answers No.: 71-80 (231Q&As)

QUESTION 71
You are developing an application by using G#.
You provide a public key to the development team during development.
You need to specify that the assembly is not fully signed when it is built.
Which two assembly attributes should you include in the source code? (Each correct answer presents part of the solution. Choose two.)

A. AssemblyFlagsAttribute
B. AssemblyKeyFileAttribute
C. AssemblyConfigurationAttribute
D. AssemblyDelaySignAttribute

Answer: BD

QUESTION 72
Drag and Drop Question
You are developing a C# application.
The application includes a class named Rate.
The following code segment implements the Rate class:

```
public class Rate
{
  public string Category { get; set; }
  public DateTime Date { get; set; }
  public decimal Value { get; set; }
}
```

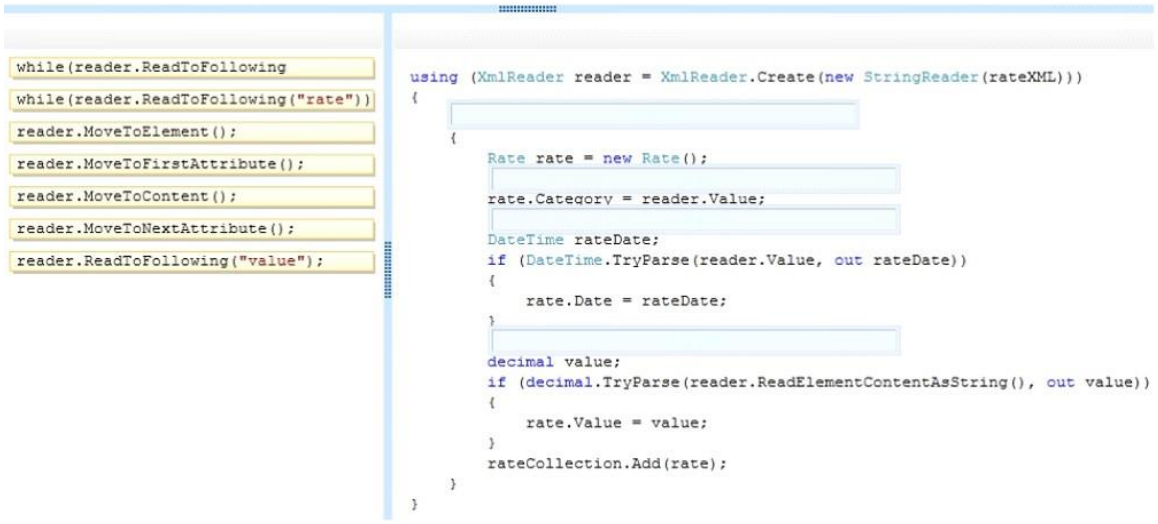
You define a collection of rates named rateCollection by using the following code segment:

```
Collection<Rate> rateCollection = new Collection<Rate>() ;
```

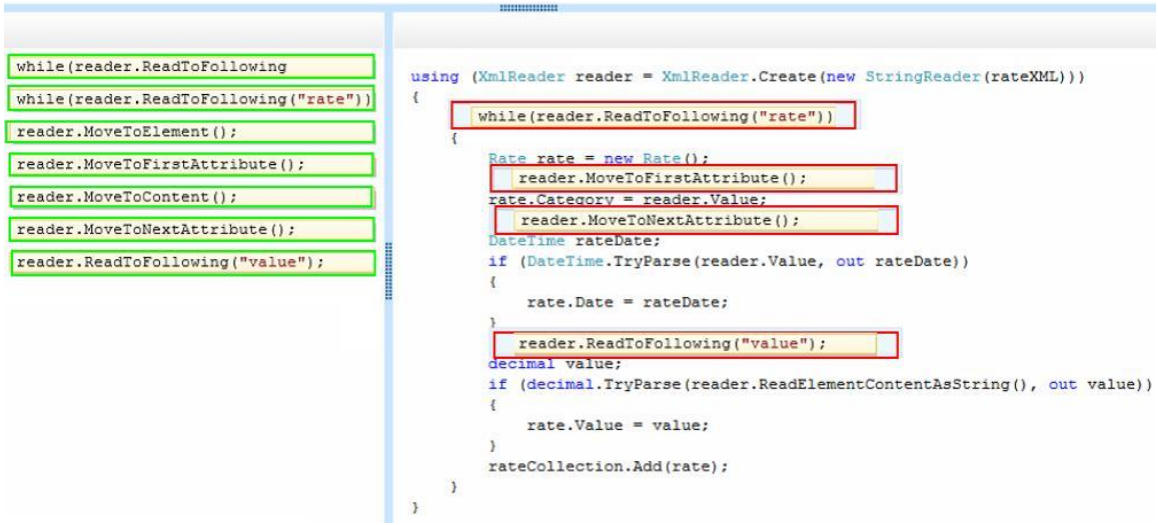
The application receives an XML file that contains rate information in the following format:

```
<?xml version="1.0" encoding="utf-8" ?>
<RateSheet>
  <rate category="buyout" date="2012-03-22">
    <value>0.0375</value>
  </rate>
  <rate category="fixed" date="2012-03-23">
    <value>0.0475</value>
  </rate>
</RateSheet>
```

You need to parse the XML file and populate the rateCollection collection with Rate 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.)



Answer:



QUESTION 73
You are developing an application.
You need to declare a delegate for a method that accepts an integer as a parameter, and then returns an integer.
Which type of delegate should you use?

A. `Action<int>`
B. `Action<int,int>`
C. `Func<int, int>`
D. `Func<int>`

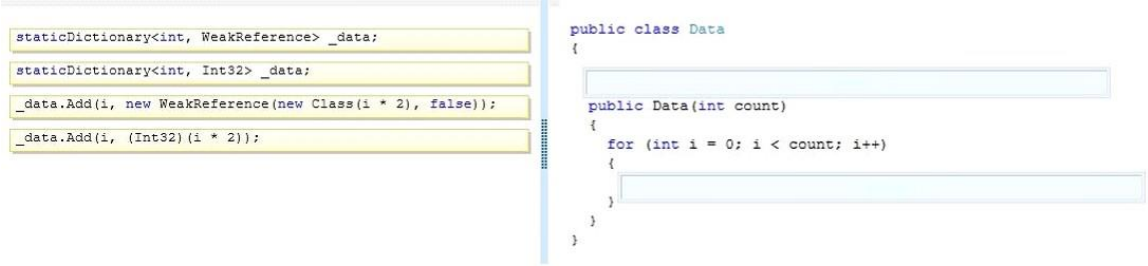
Answer: C

QUESTION 74
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?

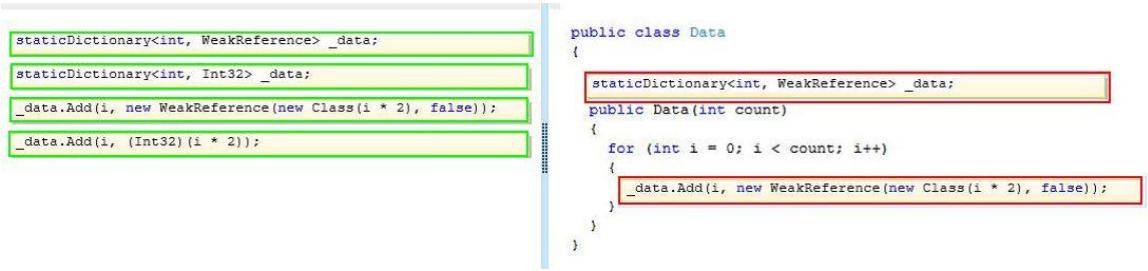
A. DES
B. HMACSHA512
C. RNGCryptoServiceProvider
D. ECDsa

Answer: B

QUESTION 75
Drag and Drop Question
You are creating a class named Data that includes a dictionary object named _data.
You need to allow the garbage collection process to collect the references of the _data object.
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.)



Answer:



QUESTION 76
Drag and Drop Question
You have the following class:

```
public class Class1 : IEquatable<Class1>
{
   public Int32 ID { get; set; }
   public String Name { get; set; }
   public bool Equals(Class1 other)
   {
   }
}
```

You need to implement IEquatable.
The Equals method must return true if both ID and Name are set to the identical values. Otherwise, the method must return false. Equals must not throw an exception.
What should you do? (Develop the solution by selecting and ordering the required code snippets. You may not need all of the code snippets.)

```
if (!Object.Equals
(this.Name, other.Name)) return false;
```

```
if (this.ID == other.ID) return false;
```

```
return false;
```

```
return true;
```

```
if (other == null) return false;
```

```
break
```

```
if (this.ID != other.ID) return false;
```

```
if (!this.Name.Equals
(other.Name)) return false;
```

Answer:

```
if (!Object.Equals
(this.Name, other.Name)) return false;
```

```
if (this.ID == other.ID) return false;
```

```
return false;
```

```
return true;
```

```
if (other == null) return false;
```

```
break
```

```
if (this.ID != other.ID) return false;
```

```
if (!this.Name.Equals
(other.Name)) return false;
```

```
if (other == null) return false;
```

```
if (this.ID != other.ID) return false;
```

```
if (!Object.Equals
(this.Name, other.Name)) return false;
```

QUESTION 77

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

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<T>.Add Method
Adds an object to the end of the List<T>.

QUESTION 78
You have a List object that is generated by executing the following code:

```
List<string> departments = new List<string>()
{
  "Accounting", "Marketing", "Sales", "Manufacturing", "Information Systems", "Training"
};
```

You have a method that contains the following code (line numbers are included for reference only):

```
01  private bool GetMatches(List<string> departments, string searchTerm)
02  {
03    var findDepartment = departments.Exists((delegate(string deptName)
04    {
05      return deptName.Equals(searchTerm);
06    }
07    ));
08    return findDepartment;
09  }
```

You need to alter the method to use a lambda statement.
How should you rewrite lines 03 through 06 of the method?

A.
```
var findDepartment = departments.First(x => x == searchTerm);
```

B.
```
var findDepartment = departments.Where(x => x == searchTerm);
```

C.
```
var findDepartment = departments.Exists(x => x.Equals(searchTerm));
```

D.
```
var findDepartment = departments.Where(x => x.Equals(searchTerm));
```

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

Answer: C

QUESTION 79
You are developing an application by using C#.
The application will write events to an event log.
You plan to deploy the application to a server.
You create an event source named MySource and a custom log named MyLog on the server.
You need to write events to the custom log.
Which code segment should you use?

A.
```
public void WriteToEventLog(string message)
{
  EventLog eventLog = new EventLog() { Source = "Application" };
  eventLog.WriteEntry(message);
}
```

B.
```
public void WriteToEventLog(string message)
{
  EventLog eventLog = new EventLog() { Source = "MyLog", EnableRaisingEvents = true };
  EventInstance eventInstance = new EventInstance(0, 1);
  eventLog.WriteEvent(eventInstance, message);
}
```

C.
```
public void WriteToEventLog(string message, EventLogEntryType eventLogEntryType)
{
  EventLog eventLog = new EventLog() { Source = "MyLog" };
  eventLog.WriteEntry(message, eventLogEntryType);
}
```

D.
```
public void WriteToEventLog(string message, EventLogEntryType eventLogEntryType)
{
  EventLog eventLog = new EventLog() { Source = "MySource", EnableRaisingEvents = true };
  eventLog.WriteEntry(message, eventLogEntryType);
}
```

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

Answer: D

QUESTION 80
Hotspot Question
You are developing an application in C#.
The application will display the temperature and the time at which the temperature was recorded.
You have the following method (line numbers are included for reference only):

```
01 public void DisplayTemperature(DateTime date, double temp)
02 {
03   string output;
04
05   string lblMessage = output;
06 }
```

You need to ensure that the message displayed in the lblMessage object shows the time formatted according to the following requirements:
- The time must be formatted as hour:minute AM/PM, for example 2:00 PM.
- The date must be formatted as month/day/year, for example 04/21/2013.
- The temperature must be formatted to have two decimal places, for example 23- 45.

Which code should you insert at line 04? (To answer, select the appropriate options in the answer area.)

output = string.Format("Temperature at [ ] on [ ]", date, temp) [ ]

{0:t}	{0:d}	{0}
{1:t}	{1:d}	{1}
{0:hh:mm}	{0:dd/mm/yy}	{0:N2}
{1:hh:mm}	{1:mm/dd/yy}	{1:N2}

Answer:

output = string.Format("Temperature at [{0:t}] on [{0:dd/mm/yy}]", date, temp) [{1:N2}]

{0:t}	{0:d}	{0}
{1:t}	{1:d}	{1}
{0:hh:mm}	{0:dd/mm/yy}	{0:N2}
{1:hh:mm}	{1:mm/dd/yy}	{1:N2}