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Exam : Microsoft 70-536VB

Title : TS:MS.NET Framework 2.0-Application Develop Foundation

1. You are developing an application that stores data about your company's sales and technical support teams.

You need to ensure that the name and contact information for each person is available as a single collection when a user queries details about a specific team. You also need to ensure that the data collection guarantees type safety.

Which code segment should you use?

A. Dim team As Hashtable = New Hashtable()

team.Add(1, "Hance")

team.Add(2, "Jim")

team.Add(3, "Hanif")

team.Add(4, "Kerim")

team.Add(5, "Alex")

team.Add(6, "Mark")

team.Add(7, "Roger")

team.Add(8, "Tommy")

B. Dim team As ArrayList = New ArrayList()

team.Add("1, Hance")

team.Add("2, Jim")

team.Add("3, Hanif")

team.Add("4, Kerim")

team.Add("5, Alex")

team.Add("6, Mark")

team.Add("7, Roger")

team.Add("8, Tommy")

C. Dim team As New Dictionary(Of Integer, String)

team.Add(1, "Hance")

team.Add(2, "Jim")

team.Add(3, "Hanif")

team.Add(4, "Kerim")

team.Add(5, "Alex")

team.Add(6, "Mark")

team.Add(7, "Roger")

team.Add(8, "Tommy")

D. Dim team As String() = New String() { _

"1, Hance", _

"2, Jim", _

"3, Hanif", _

"4, Kerim", _

"5, Alex", _

"6, Mark", _

"7, Roger", _

"8, Tommy"}

Answer: C

2. You are working on a debug build of an application.

You need to find the line of code that caused an exception to be thrown.

Which property of the Exception class should you use to achieve this goal?

- A. Data
- B. Message
- C. StackTrace
- D. Source

Answer: C

3. You are creating a class named Age.

You need to ensure that the Age class is written such that collections of Age objects can be sorted.

Which code segment should you use?

A. Public Class Age

Public Value As Integer

Public Function CompareTo(ByVal obj As Object) As Object

If TypeOf obj Is Age Then

Dim _age As Age = CType(obj, Age)

Return Value.CompareTo(obj)

End If

Throw New ArgumentException("object not an Age")

End Function

End Class

B. Public Class Age

Public Value As Integer

Public Function CompareTo(ByVal iValue As Integer) As Object

Try

Return Value.CompareTo(iValue)

Catch

Throw New ArgumentException ("object not an Age")

End Try

End Function

End Class

C. Public Class Age

Implements IComparable

Public Value As Integer

Public Function CompareTo(ByVal obj As Object) As Integer _

Implements IComparable.CompareTo

If TypeOf obj Is Age Then

Dim _age As Age = CType(obj, Age)

Return Value.CompareTo(_age.Value)

End If

Throw New ArgumentException("object not an Age")

End Function

End Class

D. Public Class Age

Implements IComparable

Public Value As Integer

Public Function CompareTo(ByVal obj As Object) As Integer _

Implements IComparable.CompareTo

Try

Return Value.CompareTo((CType(obj, Age)).Value)

Catch

Return -1

```
End Try
End Function
End Class
Answer: C
```

4. You are writing a method that returns an ArrayList named al.
You need to ensure that changes to the ArrayList are performed in a thread-safe manner.

Which code segment should you use?

```
A. Dim al As ArrayList = New ArrayList()
   SyncLock al.SyncRoot
   Return al
   End SyncLock
B. Dim al As ArrayList = New ArrayList()
   SyncLock al.SyncRoot.GetType()
   Return al
   End SyncLock
C. Dim al As ArrayList = New ArrayList()
   Monitor.Enter(al)
   Monitor.Exit(al)
   Return al
D. Dim al As ArrayList = New ArrayList()
   Dim sync_al as ArrayList = ArrayList.Synchronized(al)
   Return sync_al
Answer: D
```

5. You are writing a custom dictionary. The custom-dictionary class is named MyDictionary.
You need to ensure that the dictionary is type safe.

Which code segment should you use?

```
A. Class MyDictionary
   Implements Dictionary(Of String, String)
B. Class MyDictionary
   Inherits Hashtable
C. Class MyDictionary
   Implements IDictionary
D. Class MyDictionary
   ...
End Class
Dim t As New Dictionary(Of String, String)
Dim dict As MyDictionary = CType(t, MyDictionary)
Answer: A
```

6. You are creating a class named Temperature. The Temperature class contains a public field named F. The public field F represents a temperature in degrees Fahrenheit.

You need to ensure that users can specify whether a string representation of a Temperature instance displays the Fahrenheit value or the equivalent Celsius value.

Which code segment should you use?

```
A. Public Class Temperature
   Implements IFormattable
   Public F As Integer
   Public Function ToString(ByVal format As String, _
   ByVal fp As IFormatProvider) As String _
   Implements IFormattable.ToString
   If (format = "F" Or format = Nothing) Then
```

```

Return F.ToString()
End If
If format = "C" Then
Return ((F - 32) / 1.8).ToString()
End If
Throw New FormatException("Invalid format string")
End Function
End Class
B. Public Class Temperature
Implements ICustomFormatter
Public F As Integer
Public Function Format(ByVal formatString As String, _
ByVal arg as object, ByVal fp As IFormatProvider) _
As String Implements ICustomFormatter.Format
If formatString = "C" Then
Return ((F - 32) / 1.8).ToString()
End If
If formatString = "F" Then
Return arg.ToString()
End If
Throw New FormatException("Invalid format string")
End Function
End Class
C. Public Class Temperature
Public F As Integer
Public Function ToString(ByVal format As String, _
ByVal fp As IFormatProvider) As String
If format = "C" Then
Return ((F - 32) / 1.8).ToString()
Else
Return Me.GetType().ToString()
End If
End Function
End Class
D. Public Class Temperature
Public F As Integer
Protected format As String
Public Overrides Function ToString() As String
If format = "C" Then
Return ((F - 32) / 1.8).ToString()
End If
Return F.ToString()
End Function
End Class
Answer: A

```

7. You are developing an application to assist the user in conducting electronic surveys. The survey consists of 25 true-or-false questions.

You need to perform the following tasks:

- Initialize each answer to true.
- Minimize the amount of memory used by each survey.

Which storage option should you choose?

A. Dim answers As New BitVector32(1)

B. Dim answers As New BitVector32(-1)

C. Dim answers As New BitArray(1)

D. Dim answers As New BitArray(-1)

Answer: B

8. You are instantiating a variable to store only strings. The variable is named messageStore.

You need to ensure that string messages are read and processed in the order in which they are received.

Which code segment should you use?

A. Dim messageStore As New Stack(Of String)

messageStore.Push("This is a test message.")

B. Dim messageStore As New Stack()

messageStore.Push("This is a test message.")

C. Dim messageStore As New Queue()

messageStore.Enqueue("This is a test message.")

D. Dim messageStore As New Queue(Of String)

messageStore.Enqueue("This is a test message.")

Answer: D

9. You need to write a multicast delegate that accepts a DateTime argument.

Which code segment should you use?

A. Public Delegate Function PowerDeviceOn(_

ByVal result As Boolean, _

ByVal autoPowerOff As?DateTime) _

As Integer

B. Public Delegate Function PowerDeviceOn(_

ByVal sender As Object, _

ByVal autoPowerOff As EventArgs) _

As Boolean

C. Public Delegate Sub PowerDeviceOn(_

ByVal autoPowerOff As DateTime)

D. Public Delegate Function PowerDeviceOn(_

ByVal autoPowerOff As DateTime) _

As Boolean

Answer: C

10. You write the following code.

```
Public Delegate Sub FaxDocs(ByVal sender As Object, _
```

```
ByVal args as FaxArgs)
```

You need to create an event that will invoke FaxDocs.

Which code segment should you use?

A. Public Shared Event Fax As FaxDocs

B. Public Shared Event FaxDocs As FaxArgs

C. Public Class FaxArgs

Inherits EventArgs

Private coverPageInfo As String

Public Sub New(ByVal coverInfo As String)

Me.coverPageInfo = coverInfo

End Sub

Public ReadOnly Property CoverPageInformation As String

Get

Return Me.coverPageInfo

End Get

End Property

End Class
 D. Public Class FaxArgs
 Inherits EventArgs
 Private coverPageInfo As String
 Public ReadOnly Property CoverPageInformation As String
 Get
 Return Me.coverPageInfo
 End Get
 End Property
 End Class
 Answer: A

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