

Exam : Microsoft 70-544(VB)

**Title : TS: MS Virtual Earth 6.0,
Application Development**

Version : Demo



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1. Your Microsoft MapPoint Web Service (MWS) User Id is 124566, and your MWS password is P@ssw0rd. You need to use MWS to create an application.

Which code segment should you use?

- A. Dim appCredential As New System.Net.NetworkCredential("124566", "P@ssw0rd")
- B. Dim appCredential = New System.Security.Principal.NTAccount("124566", "P@ssw0rd")
- C. Dim appCredential As New System.Security.Principal.GenericIdentity("124566", "P@ssw0rd")
- D. Dim appCredential As New System.EnterpriseServices.SecurityIdentity("124566", "P@ssw0rd")

Answer: A

2. You are integrating third-party data into a Virtual Earth 6.0 application. The data that is retrieved from the third party is stored in an array named Results. The Results array is stored inside a Web handler. The data is stored in the following format.

```
Results(0).Add("name", "Mike Pizzeria")
Results(0).Add("address", "123 Main St., New York, NY")
Results(0).Add("latitude", "40.123")
Results(0).Add("longitude", "-70.456")
Results(0).Add("thumbnail", "http://www.site.com/st3465.jpg")
```

```
...
Return Results
```

The Web handler uses the GeoRSSFeed class to accept items of type GeoRSSItem. The class contains the ToString() method that writes the GeoRSS feed to a string.

The Web handler GeoRSS integration is defined by the following code segment. (Line numbers are included for reference only.)

```
01 Dim feed As New GeoRSSFeed()
02 Dim curItem As GeoRSSItem
03 For i As Integer = 0 To Results.Count - 1
04 curItem = New GeoRSSItem()
05 ...
06 feed.Add(curItem)
07 Next
08 // Write feed to HTTP Response
```

09 context.Write(feed.ToString());

The Web handler uses the GeoRSSItem class that contains the following code segment. (Line numbers are included for reference only.)

10 Public Class GeoRSSItem

11 Public elements As Dictionary(Of String, String)

12 Public Sub New()

13 elements = New Dictionary(Of String, String)()

14 End Sub

15 Public Sub Add(ByVal pName As String, _

ByVal pValue As String)

16 elements.Add(pName, pValue)

17 End Sub

18 Public Overloads Overrides Function ToString() As String

19 Dim returnValue As New StringBuilder()

20 For Each key As String In elements.Keys

21 returnValue.AppendFormat(" " & Chr(9) & " " & _

Chr(9) & "<{0}>{1}</{0}>" & Chr(10) & " ", _

key, elements(key))

22 Next

23 Return returnValue.ToString()

24 End Function

25 End Class

You need to encode the data inside the Results array into the GeoRSS format.

Which code segment should you insert at line 05?

A. Dim objEnumerator As IEnumerator

Dim Keys As Collections.Generic.Dictionary(Of String, _ String).KeyCollection = Results(i).Keys()

Dim curKey As String

objEnumerator = Keys.GetEnumerator()

Do While objEnumerator.MoveNext

curKey = objEnumerator.Current

curItem.Add(curKey, Results(i)(curKey))

Loop

- B. `curlItem.Add("title", Results(i)("name"))`
`curlItem.Add("description", Results(i)("address"))`
`curlItem.Add("latitude", Results(i)("latitude"))`
`curlItem.Add("longitude", Results(i)("longitude"))`
`curlItem.Add("icon", Results(i)("thumbnail"))`
- C. `curlItem.Add("title", Results(i)("name"))`
`curlItem.Add("description", String.Format("{0}{1}", _`
`Results(i)("address"), Results(i)("thumbnail"))`
`curlItem.Add("latitude", Results(i)("latitude"))`
`curlItem.Add("longitude", Results(i)("longitude"))`
- D. `curlItem.Add("name", Results(i)("name"))`
`curlItem.Add("address", string.Format("{0}{1}", _`
`Results(i)("address"), Results(i)("thumbnail"))`
`curlItem.Add("latitude", Results(i)("latitude"))`
`curlItem.Add("longitude", Results(i)("longitude"))`

Answer: C

3. You are creating a Virtual Earth 6.0 application that retrieves locations from a Microsoft SQL Server 2005 database.

A stored procedure will be used to retrieve only locations that lie within the currently displayed map area. You need to define the boundary within which the locations displayed on the map must lie.

How should you define the boundary?

- A. points represented by the bottom-right and top-left pixel coordinates
- B. points represented by the bottom-right and top-left latitude and longitude coordinates
- C. the center point of a circle whose radius is equal to the size of the map based on pixel coordinates
- D. the center point of a circle whose radius is equal to the size of the map based on latitude and longitude coordinates

Answer: B

4. You are updating a Virtual Earth 6.0 store locator. A database table named Stores contains the City and State fields. A Microsoft SQL Server 2005 function named CalculateDistance measures the distance between two points.

The store locator contains a stored procedure named LookupStores that retrieves the names of stores located in a given city and state. The city and state are passed in as parameters to the stored procedure.

You need to extend the store locator to support a proximity search within a given radius.

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

- A. Add a Radius field to the Stores table.
- B. Add a Distance field to the Stores table.
- C. Add Latitude and Longitude fields to the Stores table.
- D. Extend the LookupStores stored procedure to use CalculateDistance.
- E. Create a new stored procedure that uses CalculateDistance along with the result set from the LookupStores stored procedure.
- F. Create a new stored procedure that uses CalculateDistance along with the entire data set from the Stores table.

Answer: C AND F

5. You deploy a Virtual Earth 6.0 application that uses Microsoft ASP.NET Asynchronous JavaScript and XML (AJAX) implementation to retrieve data.

The myAjaxCallback function evaluates any AJAX response. The function contains the following code segment. (Line numbers are included for reference only.)

```
01 function myAjaxCallback () {  
02   if (xmlHttp.readyState == 4) {  
03     ...  
04   }  
05 }
```

At the time the request was made, the server was overloaded. When the server processed the AJAX request, the server returned an error message.

You need to ensure that the application does not produce a fatal exception due to the error generated from the AJAX response.

Which code segment should you insert at line 03?

- A.

```
If(xmlHttp.status == 200){  
    eval(xmlHttp.responseText);  
}  
else{  
    // Update user with status here.  
}
```
- B.

```
try{  
    eval(xmlHttp.responseText);  
}  
catch(error){  
    // Update user with status here.
```

```
}  
C. try{  
    eval(xmlHttp.responseText);  
}  
catch(error){  
    eval(xmlHttp.responseXML);  
}  
D. try{  
    eval(xmlHttp.responseText);  
}  
catch(error){  
    if(xmlHttp.status == 200){  
        eval(xmlHttp.responseText);  
    }  
}
```

Answer: A

6. You are writing a code segment for a Virtual Earth 6.0 application. The code segment returns data for multiple locations to a client-side JavaScript function that makes the initial request.

The returned data contains the following properties for each location:

ID

Latitude

Longitude

Address

You need to format all locations and their properties in JavaScript Object Notation (JSON) format.

Which code segment should you use?

- A. `var results = new Array();`
`results[0] = 123;`
`results[1] = 40.0;`
`results[2] = -74.0;`
`results[3] = " 123 Main St .";`
- B. `var results = new Array();`
`results[0] = new Array();`
`results[0][0] = 123;`
`results[0][1] = 40.0;`
`results[0][2] = -74.0;`

```
results[0][3]= " 123 Main St .";
```

C. var results = {

```
    ID: 123,
```

```
    Latitude: 40.0,
```

```
    Longitude: -74.0,
```

```
    Address: " 123 Main St ."
```

```
};
```

D. var results = {

```
    0:{
```

```
        ID: 123,
```

```
        Latitude: 40.0,
```

```
        Longitude: -74.0,
```

```
        Address: " 123 Main St "
```

```
    }
```

```
};
```

Answer: D

7. You are creating a Virtual Earth 6.0 application. The application will use data that is stored in the Microsoft MapCruncher output format.

The MapCruncher output is defined in the following manner:

```
var tileSrc = http://dev.live.com/virtualearth/sdk/layers/layer1
```

You need to ensure that the application displays the data as a new layer on the Virtual Earth map.

Which code segment should you use?

A. var tileSourceSpec = new VETileSourceSpecification("layer1/%4.png", tileSrc);
map.AddTileLayer(tileSourceSpec, true);

B. var tileSourceSpec = new VETileSourceSpecification("layer1", tileSrc + /%4);
map.AddTileLayer(tileSourceSpec, true);

C. var tileSourceSpec = new VETileSourceSpecification("layer1", tileSrc + "/%4.png");
map.AddTileLayer(tileSourceSpec, true);

D. var tileSourceSpec = new VETileSourceSpecification("layer1", tileSrc + /%1.png);
map.AddTileLayer(tileSourceSpec, true);

Answer: C

8. You are creating a custom tile set by using Microsoft MapCruncher.

The tile set must overlay a weather map image in a Virtual Earth 6.0 application by using MapCruncher.

You need to perform two tasks before using MapCruncher to create the custom tile set.

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

- A. Split the weather map image into tiles.
- B. Obtain the latitude and longitude coordinates for the corners of the weather map image.
- C. Apply the proper alpha filter to the weather map image to display any transparent portions on the Virtual Earth map.
- D. Obtain low resolution weather map images for low zoom levels and high resolution weather map images for high zoom levels.

Answer: B AND C

9. You are managing Microsoft MapPoint Web Service (MWS) data in an application by using the Customer Services site. The application uses the DS_ONE data source stored on the Customer Services site.

The application displays several records in the wrong locations on the map.

You need to display these records correctly on the map.

What should you do?

- A. View the data source geocoding results. Filter on match code. Manually edit all the resulting locations through the Customer Services site.
- B. Download the data source. Remove the latitude and longitude data. Re-upload the corrected data to the Customer Services site.
- C. Download the data source. Update all the locations by using a Find or FindAddress call. Re-upload the corrected data to the Customer Services site.
- D. Download the data source. Update each bad geocode by using a Find or FindAddress call. Re-upload the corrected data to the Customer Services site.

Answer: A

10. A Virtual Earth 6.0 application loads locations from a local Microsoft SQL Server 2005 database. You update locations in the database manually.

You plan to automate the manual process.

You need to ensure that the automation process updates the maximum number of locations in the least amount of time.

What should you do?

- A. Call the Find method for each location by using Microsoft MapPoint Web Service.
- B. Call the FindAddress method for each location by using Microsoft MapPoint Web Service.
- C. Push all locations to Customer Data Services by using the UploadSpecification class, and retrieve the results.
- D. Push all locations to Customer Data Services by using the BatchGeocodeSpecification class, and retrieve the results.

Answer: D

11. You are creating a North American reverse geocoding application by using the Microsoft MapPoint Web

Service.

The application must convert the latitude and longitude coordinates of a point on the map into a string that contains the city, province/state, and country.

You need to obtain the string in the following format: "city, province/state, country".

Which code segment should you use?

A. Dim getInfoOptions As New GetInfoOptions()

 getInfoOptions.IncludeAddresses = True

 getInfoOptions.IncludeAllEntityTypes = True

 Dim locations As List(Of Location) = _ findService.GetLocationInfo(origin, "MapPoint.NA",
 getInfoOptions)

 Dim address As String = locations(0).Entity.DisplayName

B. Dim getInfoOptions As New GetInfoOptions()

 getInfoOptions.IncludeAddresses = False

 getInfoOptions.IncludeAllEntityTypes = False

 getInfoOptions.EntityTypesToReturn = New String() {"PopulatedPlace"}

 Dim locations As List(Of Location) = _

 findService.GetLocationInfo(origin, "MapPoint.NA", getInfoOptions)

 Dim address As String = locations(0).Entity.DisplayName

C. Dim getInfoOptions As New GetInfoOptions()

 getInfoOptions.IncludeAddresses = True

 getInfoOptions.IncludeAllEntityTypes = False

 getInfoOptions.EntityTypesToReturn = New String() {"PopulatedPlace"}

 Dim locations As List(Of Location) = _ findService.GetLocationInfo(origin, "MapPoint.NA",
 getInfoOptions)

 Dim address As String = locations(0).Entity.DisplayName

D. Dim getInfoOptions As New GetInfoOptions()

 getInfoOptions.IncludeAddresses = True

 getInfoOptions.IncludeAllEntityTypes = False

 getInfoOptions.EntityTypesToReturn = New String() {"AdminDivision1"}

 Dim locations As List(Of Location) = _

 findService.GetLocationInfo(origin, "MapPoint.NA", getInfoOptions)

 Dim address As String = locations(0).Entity.DisplayName

Answer: B

12. You create a Microsoft MapPoint Web Service application that accepts routes from users.

You need to find points of interest that are within one mile of a route or within three miles of the endpoints of

the route.

What are two possible ways to achieve the goal? (Each correct answer presents a complete solution. Choose two.)

A. findNearRouteSpec.Distance = 1

```
Dim findResults As FindResults = _  
findService.FindNearRoute ( findNearRouteSpec )  
foundLocations.Add ( FindResults )  
findNearbySpec.Distance = 3  
findNearbySpec.LatLong = startLatLong  
FindResults = findService.FindNearby ( findNearbySpec )  
foundLocations.Add ( FindResults )  
findNearbySpec.LatLong = endLatLong  
FindResults = findService.FindNearby ( findNearbySpec )  
foundLocations.Add ( FindResults )
```

B. findNearRouteSpec.Distance = 1

```
findResults = findService.FindNearRoute ( findNearRouteSpec )  
foundLocations.Add ( FindResults )  
findNearbySpec.Distance = 3  
For Each findResult As FindResult In FindResults.Results  
    findNearbySpec.LatLong = findResult.FoundLocation.LatLong  
    FindResults = findService.FindNearby ( findNearbySpec )  
    foundLocations.Add ( FindResults )
```

Next

C. findNearRouteSpec.Distance = 1

```
findResults = findService.FindNearRoute ( findNearRouteSpec )  
foundLocations.Add ( findResults )  
findNearbySpec.Distance = 3  
For Each segment As Segment In route.Itinerary.Segments  
    findNearbySpec.LatLong = segment.Waypoint.Location.LatLong  
    findResults = findService.FindNearby ( findNearbySpec )  
    foundLocations.Add ( findResults )
```

Next

D. findNearRouteSpec.Distance = 1

```
findResults = findService.FindNearRoute ( findNearRouteSpec )  
foundLocations.Add ( findResults )
```

```
findNearbySpec.Distance = 3
```

```
For Each segment As Segment In route.Itinerary.Segments
```

```
    For Each direction As Direction In segment.Directions
```

```
        findNearbySpec.LatLong = direction.LatLong
```

```
        findResults = findService.FindNearby ( findNearbySpec )
```

```
        foundLocations.Add ( findResults )
```

```
    Next
```

```
Next
```

Answer: A AND C

13. Your company salesman plans to visit five customers located in five different cities.

You need to display the shortest route that covers all five customer locations on a Web-based map.

What should you do?

A. Call the VEMap.GetRoute method. Set the route type to shortest.

B. Call the Route.Calculate method and the Waypoints.Optimize method.

C. Call the RouteServiceSoap.CalculateSimpleRoute method by using the MapPoint.World datasource, an array with latitude and longitude values, and the value shortest for the SegmentPreference parameter. Call the RenderServiceSoap.GetMap method.

D. Call the RouteServiceSoap.CalculateSimpleRoute method by using the MapPoint.WorldRoutable data source, an array with latitude and longitude values, and the value shortest for the SegmentPreference parameter. Call the RenderServiceSoap.GetMap method.

Answer: D

14. You want to define a route specification for the fastest route in the United Kingdom between a start point, 30 intermediate stops, and an end point.

You call the Microsoft MapPoint Web Service method named CalculateSimpleRoute. You also set an array of latitude and longitude values for all the points and stops as the first parameter.

You need to set the required parameters for the route specification.

What should you do?

A. Set the data source parameter to MapPoint.EU and use Quickest as the value for the SegmentPreference parameter.

B. Set the data source parameter to MapPoint.BR and use Quickest as the value for the SegmentPreference parameter.

C. Set the data source parameter to MapPoint.EU and use Shortest as the value for the SegmentPreference parameter.

D. Set the data source parameter to MapPoint.EU and use PreferredRoads as the value for the SegmentPreference parameter.

E. Set the data source parameter to MapPoint.World and use PreferredRoads as the value for the SegmentPreference parameter.

Answer: A

15. You upload territory information to a data source on the Microsoft MapPoint Web Service.

You receive the coordinates of a moving vehicle every 30 seconds.

You need to identify the territory where the vehicle is currently located.

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

- A. Call the FindById method.
- B. Call the FindPolygon method.
- C. Call the FindByProperty method.
- D. Create a FindPolygonSpecification object by using the LatLongSpatialFilter class.
- E. Create a FindPolygonSpecification object by using the LatLongRectangleSpatialFilter class.

Answer: B AND D



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