



70-544

TS: Ms Virtual Earth 6.0, Application Development

Q&A

DEMO Version

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Technical and Support Team
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Microsoft 70-544 (VB)

Question: 1

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

Question: 2

You have the following information about a hurricane path:

Latitudes

Longitudes

Time

Description

A measure point of the above data every 10 minutes.

You need to display the movement, time, and description of the hurricane path on a Virtual Earth 6.0 map.

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

- A. Import a GeoRSS feed to a new layer.
- B. Import a Live Maps collection to a new layer.
- C. Store the hurricane path as a Live Maps collection.
- D. Encode the measure points as a GeoRSS feed.
- E. Encode the measure points as pushpins by using the VEShape.SetPoints method.
- F. Encode the hurricane path as a polyline by using the VEShape(VEShapeType, points) method.

Answer: A, D

Question: 3

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, D

Question: 4

You add a new pushpin to a Virtual Earth 6.0 map. You are creating an algorithm to calculate the polygon representation of a pushpin cluster. You write a step to verify that the pushpin belongs to the cluster. You need to identify whether to recalculate the polygon representation.

What should you do?

- A. Calculate the convex hull of all pushpins and verify whether the location of the new pushpin lies outside the convex hull.
- B. Calculate the bounding box of all pushpins and verify whether the location of the new pushpin lies inside the bounding box.
- C. Calculate whether the location of the new pushpin overlaps the center point of all pushpins.
- D. Calculate the minimum bounding rectangle of the polygon and verify whether the location of the new pushpin lies inside the minimum bounding rectangle.

Answer: A

Question: 5

You need to create a cluster of pushpins for a large dataset that takes the least amount of time to load on a Virtual Earth 6.0 map. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. Start clustering by using the VEMap.onendzoom event.
- B. Start clustering by using the VEMap.onchangeview event.
- C. Implement client-side clustering by using JavaScript.
- D. Implement server-side clustering by using Microsoft ASP.NET 2.0.

Answer: B, D

Question: 6

A news channel wants to display live traffic incident information for a city on a Web site. You develop a three-tier architecture. The Microsoft MapPoint Web Service delivers traffic information that is managed by a user-defined class. The class acts as a SOAP-AJAX connector. Users interact with a Virtual Earth 6.0 map that is already loaded.

You need to ensure that the traffic incident information is displayed on a new layer of the Virtual Earth map as the map is navigated by the users.

Which sequence of actions should you perform? (To answer, move all the actions from the list of actions to the answer area and arrange them in the correct order.)

List of Actions	Answer Area
Use a class to issue a SOAP request to MapPoint Web Service.	
On the primary page, run the JavaScript commands to add the pushpins.	
Capture the onchangeview event when a user pans or zooms the Virtual Earth map.	
Use the callback method for the onchangeview event to issue an HTTP request to the HttpHandler page. Delegate the request to the MapPoint Web Service Traffic class.	
Generate a text response based on the MapPoint Web Service SOAP response that consists of AddPushpin JavaScript commands for the traffic information. Return the response back to the primary page by using the handler.	

Answer:

List of Actions	Answer Area
Use a class to issue a SOAP request to MapPoint Web Service.	
On the primary page, run the JavaScript commands to add the pushpins.	
Capture the onchangeview event when a user pans or zooms the Virtual Earth map.	
Use the callback method for the onchangeview event to issue an HTTP request to the HttpHandler page. Delegate the request to the MapPoint Web Service Traffic class.	
Generate a text response based on the MapPoint Web Service SOAP response that consists of AddPushpin JavaScript commands for the traffic information. Return the response back to the primary page by using the handler.	

Question: 7

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**Question: 8**

You are using Microsoft MaCruncher.

You need to create prerendered tiles from a GIS point layer data file. You also need to integrate the tiles on an existing tile server.

What should you do? (To answer, move all the actions from the list of actions to the answer area and arrange them in the correct order.)

List of Actions	Answer Area
Import the tile layer into the Virtual Earth 6.0 application.	
Set a minimum of two correspondences.	
Load raster data into MapCruncher.	
Convert point layer data to raster layer data by using a GIS tool.	
Start rendering data for every zoom level.	
Copy the tiles to a Web server that can be accessed from the Internet.	

Answer:

List of Actions	Answer Area
Import the tile layer into the Virtual Earth 6.0 application.	Load raster data into MapCruncher.
Set a minimum of two correspondences.	Set a minimum of two correspondences.
Load raster data into MapCruncher.	Start rendering data for every zoom level.
Convert point layer data to raster layer data by using a GIS tool.	Copy the tiles to a Web server that can be accessed from the Internet.
Start rendering data for every zoom level.	Import the tile layer into the Virtual Earth 6.0 application.
Copy the tiles to a Web server that can be accessed from the Internet.	

Question: 9

You need to draw a straight red line between the start and end points of a calculated route. Which code segment should you use?

- A. `var locationArray = new Array(); var len = route.Itinerary.Segments.length; locationArray.push(route.Itinerary.Segments[0].LatLng); locationArray.push(route.Itinerary.Segments[len-1].LatLng); shape = new VEShape(VEShapeType.Polyline, locationArray); shape.SetLineColor(new VECOLOR(255, 0, 0, 0)); layer.AddShape(shape);`
- B. `var locationArray = new Array(); var len = route.Itinerary.Segments.length; locationArray.push(route.Itinerary.Segments[0].LatLng); locationArray.push(route.Itinerary.Segments[len].LatLng); shape = new VEShape(VEShapeType.Polyline, locationArray); shape.SetLineColor(new VECOLOR(255, 0, 0, 0)); shape.Hidelcon(); layer.AddShape(shape);`
- C. `var locationArray = new Array(); var len = route.Itinerary.Segments.length; locationArray.push(route.Itinerary.Segments[1].LatLng); locationArray.push(route.Itinerary.Segments[len].LatLng); shape = new VEShape(VEShapeType.Pushpin, locationArray); shape.SetLineColor(new VECOLOR(255, 0, 0, 0.5)); layer.AddShape(shape);`
- D. `var locationArray = new Array(); var len = route.Itinerary.Segments.length; locationArray.push(route.Itinerary.Segments[0].LatLng);`

```
locationArray.push(route.Itinerary.Segments[len-1].LatLng); shape = new
VEShape(VEShapeType.Polyline,
locationArray); shape.SetLineColor(new VECOLOR(255, 0, 0, 0.5)); shape.HideIcon();
layer.AddShape(shape);
```

Answer: D

Question: 10

You need to add a default pushpin as a shape to the base map layer at a specific latitude and longitude. Which code segment should you use?

- A. `var shape = map.AddPushpin(map.GetCenter()); shape.SetTitle('My pushpin');`
`shape.SetDescription('This is a default shape');`
- B. `var shape = new VEShape(VEShapeType.Pushpin, map.GetCenter()); shape.SetTitle('My`
`pushpin');` `shape.SetDescription('This is a default shape');` `map.AddShape(shape);`
- C. `var shape = new VEShape(VEShapeType.Pushpin, new VELatLong(0,0)); shape.SetTitle('My`
`pushpin');` `shape.SetDescription('This is a default shape');` `shape.SetPoints([new`
`VELatLong(latitude,longitude]); map.AddShape(shape);`
- D. `var shapeLayer = new VEShapeLayer(); map.AddShapeLayer(shapeLayer); var shape = new`
`VEShape(VEShapeType.Pushpin, new VELatLong(latitude,longitude)); shape.SetTitle('My`
`pushpin');` `shape.SetDescription('This is a default shape');` `shapeLayer.AddShape(shape);`

Answer: C