

 **Working on Test**

Midterm Exam

 Prev	 Table of Contents	Next 	 Continue Later	 Finish	 Instructions
----------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------

 **Midterm Exam** (worth 60 points)

Each of the nine questions on this exam has its point value indicated. The total number of points on the exam is 60, which is the number of minutes you can expect it to take you to complete it.

Open book, open notes, but you are **NOT allowed to use a text editor and browser to check your code.**

Note that the tab key does not work here in Etudes, so you will have to use spaces to indent the code that you write in answer to a few of the questions.

Question 1 of 9 (worth 3 points)

Inside a callback function, what JavaScript word do we use to refer to the context of the function that generated the event that triggered the call to the callback function? (Just type one word, please!) `onreadystatechange`

 **Review** Check to review **before** finishing (will be flagged in Table of Contents)**Question 2 of 9** (worth 2 points)

You must use an XMLHttpRequest object (or an ActiveXObject) in order to read a json file from your web application.

- True
 False

 **Review** Check to review **before** finishing (will be flagged in Table of Contents)**Question 3 of 9** (worth 2 points)

This class has been mostly concerned with server side web development.

- True
 False

 **Review** Check to review **before** finishing (will be flagged in Table of Contents)**Question 4 of 9** (worth 2 points)

A well-designed, reusable JavaScript function should perform exactly one task.


```

<?xml version="1.0" encoding="utf-8" ?>
<!-- cities.xml
    Elaine Haight, COIN 71 - Winter 2010, Partial List of Cities in 3 states
-->
<us>
  <state name="California">
    <city> Alameda</city>
    <city> Albany</city>
    <city> Calaveras</city>
    <city> Angel's Camp</city>
  </state>
  <state name="Oregon">
    <city> Bend</city>
    <city> Portland</city>
    <city> Eugene</city>
  </state>
  <state name="Washington">
    <city> Seattle</city>
    <city> Spokane</city>
    <city> Olympia</city>
    <city> Bellingham</city>
  </state>
</us>

```

Type the definition for function **allLoaded (content)** below. The statements inside your function allLoaded() must put up an alert with the string "Olympia" in it. You must get the string from the xml file, but you can assume the exact structure and order of data in cities.xml. You can assume that you have access to Google Maps functions, and that your allLoaded() function was called by GDownloadUrl() when it returned from fetching cities.xml. Please keep your answer short and sweet!

Answer

```

function allLoaded(content)
{
  var xmlDoc = GXml.parse(content);
  var stateArray = xmlDoc.getElementsByTagName("state");
  cityArray = stateArray[2].getElementsByTagName("city");    alert(cityArray[2].firstChild.data;
}

```

 **Review** Check to review **before** finishing (will be flagged in Table of Contents)**Question 8 of 9** (worth 10 points)

Given the file cities.json:

```

var US =
[
  {
    "stateName" : "California",
    "cities" : ["Alameda", "Albany", "Calaveras", "Angel's Camp"]
  },
  {
    "stateName" : "Oregon",
    "cities" : ["Bend", "Portland", "Eugene"]
  },
  {
    "stateName" : "Washington",
    "cities" : ["Seattle", "Spokane", "Olympia", "Bellingham"]
  }
]

```

Type the definition for function window.onload() below. In the definition for window.onload(), type the statements that bring up an alert with the string containing all the cities in Oregon in it. Assume that the html file for this project contains a script tag that loads cities.json.

You must get the strings from the json file, but you can assume the exact structure and order of cities.json. Please write only four or five lines for your answer, and do NOT assume that there are exactly three cities in Oregon.

 **Answer**

```

window.onload = function()
{
  for (i = 0; i < US.stateName[1].cities[i])
    { var cityNames = cities[i]; }
  alert(cityNames);
}

```

Font family

Font size

 **Review** Check to review **before** finishing (will be flagged in Table of Contents)**Question 9 of 9** (worth 16 points)

Please match the following descriptions with the appropriate term.

Match		Choice
1. framework	B.	A. Describes an operation in a program that need not be completed before program execution continues
2. asynchronous	A.	B. A set of support programs, libraries and a scripting language that create a support structure in which other software projects can be efficiently developed.
3. degradeable	D.	C. The documentation for a library of preexisting objects and methods suitable for reuse.
4. LAMP	E.	D. A JavaScript web application that operates even if JavaScript is disabled on the client's browser.
5. throughput	H.	E. A set of <i>open source</i> tools used by web developers.
6. latency	G.	F. A variable that may contain both attributes and methods.
7. API	C.	G. The length of time between a request and the response.
8. object	F.	H. The number of bytes per second that can be sent from the client to the server.

Review

Check to review **before** finishing (will be flagged in Table of Contents)

 Prev	 Table of Contents	Next 	 Continue Later	 Finish	 Instructions
----------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------