

Chapter 13.2

Question 1

Who is credited with the REST approach to web services?

- ☐ Leonard Klienrock
 - ☐ Bjarne Stroustrup
 - ☐ Vint Cerf
 - ☐ Daphne Koller
 - ☒ Roy Fielding
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Question 2

Which of the following is true about an API?

- ☐ An API defines the header bits in the first 8 bits of all IP packets
 - ☒ An API is a contract that defines how to use a software library
 - ☐ An API defines the pin-outs for the USB connectors
 - ☐ An API keeps servers running even when the power is off
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Question 3

What is the method used to parse a string containing JSON data so that you can work with the data in Python?

- ☐ json.parse()
 - ☒ json.loads()
 - ☐ json.connect()
 - ☐ json.read()
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Question 4

What kind of variable will you get in Python when the following JSON is parsed:

```
{ "id" : "001",  
  "x" : "2",  
  "name" : "Chuck"  
}
```

- ☐ A list with six items
- ☒ A dictionary with three key / value pairs

- ☐ A list of tuples
 - ☐ A tuple with three items
 - ☐ A list with three items
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Question 5

Which of the following is *not* true about the service-oriented approach?

- ☐ Standards are developed where many pairs of applications must work together
 - ☐ An application makes use of the services provided by other applications
 - ☒ An application runs together all in one place
 - ☐ Web services and APIs are used to transfer data between applications
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Question 6

Which of these two web service approaches is preferred in most modern service-oriented applications?

- ☒ REST - Representational state transfer
 - ☐ SOAP - Simple Object Access Protocol
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Question 7

What library call do you make to append properly encoded parameters to the end of a URL like the following:

```
http://maps.googleapis.com/maps/api/geocode/json?sensor=false&address=Ann Arbor, MI
```

- ☐ re.match()
 - ☒ urllib.parse.urlencode()
 - ☐ re.encode()
 - ☐ urllib.urlcat()
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Question 8

What happens when you exceed the Google geocoding API rate limit?

- ☐ Your application starts to perform very slowly
 - ☐ The API starts to perform very slowly
 - ☒ You cannot use the API for 24 hours
 - ☐ You cannot use the API until you respond to an email that contains a survey question
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Question 9

What protocol does Twitter use to protect its API?

- ☐ Java Web Tokens
 - ☐ PKI-HMAC
 - ☐ SOAP
 - ☐ WS*Security
 - ☒ OAuth
 - ☐ SHA1-MD5
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Question 10

What header does Twitter use to tell you how many more API requests you can make before you will be rate limited?

- ☐ x-max-requests
 - ☐ content-type
 - ☒ x-rate-limit-remaining
 - ☐ x-request-count-down
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