1. Who is credited with the REST approach to web services?   `1 point`

- ○ Daphne Koller
- ● Roy Fielding
- ○ Bjarne Stroustrup
- ○ Leonard Klienrock
- ○ Vint Cerf

2. What Python library do you have to import to parse and handle JSON?   `1 point`

- ○ ElementTree
- ○ BeautifulSoup
- ● import json
- ○ import re

3. Which of the following is a web services approach used by the Twitter API?   `1 point`

- ○ XML-RPC
- ○ CORBA
- ○ SOAP
- ● REST

4. What kind of variable will you get in Python when the following JSON is parsed: `1 point`

```
1  { "id" : "001",
2    "x" : "2",
3    "name" : "Chuck"
4  }
```

- ● A dictionary with three key / value pairs
- ○ A tuple with three items
- ○ A list of tuples
- ○ A list with six items
- ○ A list with three items

5. Which of the following is *not* true about the service-oriented approach?   `1 point`

- ○ 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
- ○ Standards are developed where many pairs of applications must work together

6. Which of these two web service approaches is preferred in most modern service-oriented applications?   `1 point`

- ● REST - Representational state transfer
- ○ SOAP - Simple Object Access Protocol

7. What library call do you make to append properly encoded parameters to the end of a URL like the following: `1 point`

```
1  http://maps.googleapis.com/maps/api/geocode/json?sensor=false&address=Ann+Arbor%2C+MI
```

- ○ urllib.urlcat()
- ● urllib.parse.urlencode()
- ○ re.match()
- ○ re.encode()

8. What happens when you exceed the Google geocoding API rate limit?   `1 point`

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

9. What protocol does Twitter use to protect its API?   `1 point`

- ○ PKI-HMAC
- ● OAuth
- ○ SOAP

○ WS*Security

○ SHA1-MD5

○ Java Web Tokens

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

`1 point`

○ x-request-count-down

○ content-type

◉ x-rate-limit-remaining

○ x-max-requests

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