REST, JSON, and APIs

TOTAL POINTS 10
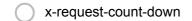
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1. Who is credited with getting the JSON movement started?　　　　1 point

- ○ Mitchell Baker
- ○ Pooja Sankar
- ◉ Douglas Crockford
- ○ Bjarne Stroustrup

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

- ○ BeautifulSoup
- ○ ElementTree
- ○ import re
- ◉ import json

3. What is the method used to parse a string containing JSON data so that you can work with the data in Python?　　　　1 point

- ○ json.read()
- ◉ json.loads()
- ○ json.connect()
- ○ json.parse()

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

```
1  [ "Glenn", "Sally", "Jen" ]
```

- ◉ A list with three items

○ A dictionary with three key / value pairs

○ A dictionary with one key / value pair

○ Three tuples

○ One Tuple

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

○ Web services and APIs are used to transfer data between applications

○ An application makes use of the services provided by other applications

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

⦿ An application runs together all in one place

6. If the following JSON were parsed and put into the variable x,   1 point

```
 1 ▾ {
 2 ▾     "users": [
 3 ▾         {
 4 ▾             "status": {
 5                   "text": "@jazzychad I just bought one .__.",
 6               },
 7               "location": "San Francisco, California",
 8               "screen_name": "leahculver",
 9               "name": "Leah Culver",
10           },
11       ...
```

what Python code would extract "Leah Culver" from the JSON?

⦿ x["users"]["name"]

○ x[0]["name"]

○ x["name"]

○ x["users"][0]["name"]

○ x->name

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

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

- ( ) urllib.urlcat()

- ( ) re.encode()

- (●) urllib.parse.urlencode()

- ( ) re.match()

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

- ( ) You canot use the API until you respond to an email that contains a survey question

- ( ) Your application starts to perform very slowly

- ( ) The API starts to perform very slowly

- (●) You cannot use the API for 24 hours

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

- ( ) PKI-HMAC

- ( ) SOAP

- ( ) SHA1-MD5

- (●) OAuth

- ( ) Java Web Tokens

- ( ) WS*Security

10. What header does Twitter use to tell you how many more API requests you can make   1 point
    before you will be rate limited?

- ( ) x-max-requests

- ( ) content-type

- (●) x-rate-limit-remaining

○ x-request-count-down

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