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1. Who is credited with getting the JSON movement started?
- ☒ Douglas Crockford

☐ Bjarne Stroustrup

☐ Mitchell Baker

☐ Pooja Sankar
2. Who is credited with the REST approach to web services?
- ☐ Bjarne Stroustrup

☐ Leonard Klienrock

☐ Vint Cerf

☒ Roy Fielding

☐ Daphne Koller
3. What Python library do you have to import to parse and handle JSON?
- ☒ import json

☐ import re

☐ BeautifulSoup

☐ ElementTree
4. Which of the following is true about an API?
- ☒ An API is a contract that defines how to use a software library

☐ An API defines the header bits in the first 8 bits of all IP packets

☐ An API defines the pin-outs for the USB connectors

☐ An API keeps servers running even when the power is off
5. What is the method used to parse a string containing JSON data so that you can work with the data in Python?
- ☒ json.loads()

☐ json.parse()

☐ json.read()

☐ json.connect()
6. Which of the following is a web services approach used by the Twitter API?
- ☒ REST

☐ SOAP

☐ CORBA

☐ XML-RPC
7. What kind of variable will you get in Python when the following JSON is parsed:
- ["Glenn", "Sally", "Jen"]

☐ A dictionary with three key / value pairs

☐ Three tuples

☐ A dictionary with one key / value pair

☒ A list with three items

☐ One Tuple
8. What kind of variable will you get in Python when the following JSON is parsed:
- { "id" : "001", "x" : "2", "name" : "Chuck" }

☐ A list with three items

☐ A tuple with three items

☐ A list with six items

☒ A dictionary with three key / value pairs

☐ A list of tuples
9. Which of the following is not true about the service-oriented approach?
- ☒ An application runs together all in one place

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

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

☐ Standards are developed where many pairs of applications must work together
10. If the following JSON were parsed and put into the variable x,

```
{
  "users": [
    {
      "status": {
        "text": "@jazzychad I just bought one .__.",
      },
      "location": "San Francisco, California",
      "screen_name": "leahculver",
      "name": "Leah Culver",
    },
    ...
  ]
}
```

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

- ☒ x["users"][0]["name"]
- ☐ x["users"]["name"]
- ☐ x[0]["name"]
- ☐ x["name"]

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

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

12. ✔ 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%2C+MI

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

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

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

14. ✔ What protocol does Twitter use to protect its API?

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

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

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