Congratulations! You passed!

Grade received 100% **To pass** 80% or higher

Go to next item

1. You have created a Python script to read a log of users running CRON jobs. The script needs to accept a command line argument for the path to the log file. Which line of code accomplishes this? **1 / 1 point**

- ○ import sys
- ◉ syslog=sys.argv[1]
- ○ print(line.strip())
- ○ usernames = {}

Correct
Right on! This will assign the script's first command line argument to the variable "syslog".

2. Which of the following is a data structure that can be used to count how many times a specific error appears in a log? **1 / 1 point**

- ○ Get
- ○ Continue
- ○ Search
- ◉ Dictionary

Correct
Great work! A dictionary is useful to count appearances of strings.

3. Which keyword will return control back to the top of a loop when iterating through logs? **1 / 1 point**

- ◉ Continue
- ○ Get
- ○ With
- ○ Search

Correct
Excellent! The continue statement is used to return control back to the top of a loop.

4. When searching log files using regex, which regex statement will search for the alphanumeric word "IP" followed by one or more digits wrapped in parentheses using a capturing group? **1 / 1 point**

- ○
```
r"IP \(\d+\)$"
```
- ○
```
b"IP \((\w+)\)$"
```
- ◉
```
r"IP \((\d+)\)$"
```
- ○
```
r"IP \((\D+)\)$"
```

Correct
Awesome! This expression will search for the word "IP" followed by a space and parentheses. It uses a capture group and \d+ to capture any digit characters found in the parentheses.

5. Which of the following are true about parsing log files? (Select all that apply.) **1 / 1 point**

- [ ] Load the entire log files into memory.
- [x] You should parse log files line by line.

Correct
Well done! Since log files can get pretty large, it's a good idea to parse them one line at a time instead of loading the entire file into memory at once.

- [x] It is efficient to ignore lines that don't contain the information we need.

Correct
Right on! We can save a lot of time by not parsing lines that don't contain what we need.

- [x] We have to ***open()*** the log files first.

Correct
Nice job! Before we can parse our log file, we have to use the ***open()*** or ***with open()*** command on the file first.