Ox03. Log Parsing

anning/me)

weight: 1

Projects(/projects/current)

➡ Project over - took place from Jul 15, 2024 6:00 AM to Jul 19, 2024 6:00 AM

An auto@AniReviebresauoalmerhatken/doordienetions/to review)

? Evaluation quizzes(/dashboards/my_current_evaluation_quizzes)

In a nutshell...

Auto QA review: 5.5/11 mandatory

Altogether: 50.0%

Curriculums(/dashb.oards/my_curriculums)

o Optional: no optional tasks

Concepts(/concepts)

For the "Oxona Lange Barssings" (Maise to Mouse Willbee do napply your knowledge of Python programming, focusing on parsing and processing data streams in real-time. This project involves reading from standard input (stdin), handling data in a specific format, and performing calculations based on the input ata. He see wells (100 to 100 to 100

Concepts Needed: Sandboxes(/user_containers/current)

1. File I/O in Python:

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Toolshidashiboards/my tools from sys.stdin line by line.

Python Input and Output (/rltoken/f7U2MDsBT_rd9AfUUaqVnQ)

2. Signal Handling in Python:

Video on demand(/dashboards/videos) O Handling keyboard interruption (CTRL + C) using signal handling in Python.

Python Signal Handling (/rltoken/1nDqPJe80rSD-NMulzjJBw)

3. Data Processing:

Peers (users) peers) to extract specific data points.

Aggregating data to compute summaries.

4. Regular Expressions:

Discord(https://discord.com/app) validate the format of each line.

Python Regular Expressions (/rltoken/ZsD-YLisfaHFeMT_sZxX1Q)

5. Dictionaries in Python:

- Using dictionaries to count occurrences of status codes and accumulate file sizes.
- Python Dictionaries (/rltoken/JM-RpavKkb8yanxWEnNYJw)
- 6. Exception Handing y_profile)







- Handling possible exceptions that may arise during file reading and data processing.
- Python Exceptions (/rltoken/OA2PlryrYA2gyCCKIsdgUw)

By studying these concepts and utilizing the resources provided, you will be well-prepared to tackle the log parsing project, effectively handling data streams, parsing log entries, and computing metrics based n the processed data.

Additional Resources My Planning(/planning/me)

Mock Technical Interview (/rltoken/VIOaXKkbecRYdnTLaLU1lg)

Requirements

Generaleviews I can make(/corrections/to_review)

- Allowed editors: vi, vim, emacs
- Al Exacutation validization that the interpretated and interpretated and the control of the co
 - All your files should end with a new line
 - The first line of all your files should be exactly #!/usr/bin/python3
 - A README.md file, at the root of the folder of the project, is mandatory



- YoQurocodeushe(Uttasbeotaeds/Erry8cstylicu(kensi)on 1.7.x)
 - All your files must be executable



 The length of your files will be tested using wc Concepts(/concepts)



Conference rooms(/dashboards/video_rooms)

asks

Servers(/servers)

Log parsing

mandatory

Sandboxes(/user_containers/current) Score: 50.0% (Checks completed: 100.0%)

₩rite a sফার্লে ধিরিক্র বিজ্ঞান বিজ্ঞান বিজ্ঞান বিজ্ঞান and computes metrics:



- Input format: <IP Address> [<date>] "GET /projects/260 HTTP/1.1" <status code> < flylide os o necke (if at he (for a station robs/thide on)e, the line must be skipped)
- After every 10 lines and/or a keyboard interruption (CTRL + C), print these statistics from the beginning:
 - Total file size: File size: <total size>



Ø

Peers/beers/peers) size> is the sum of all previous <file size> (see input format above)

- Number of lines by status code:
 - possible status code: 200, 301, 400, 401, 403, 404, 405 and 500
- Discord(https://discord.com/app), if a status code doesn't appear or is not an integer, don't print anything for this status
 - format: <status code>: <number>
 - status codes should be printed in ascending order

Warning: In this sample, you will have random value - it's normal to not have the same output as this one. My Profile(/users/my_profile)

```
alexa@ubuntu:~/0x03-log_parsing$ cat 0-generator.py
#!/usr/bin/python3
       im(p)ort random
       import sys
       from time import sleep
 mimportH@MateMime
       for i in range(10000):
                  s Mep Planning 1/planning (mp)
                   {} {}\n".format(
                      Projects//projects/cutient/255), random.randint(1, 255), random.randint(1, 255), r
       andom.randint(1, 255),
                              datetime.datetime.now(),
                       QAMPervilows & loginary (2000 prosection of the province of th
                              random.randint(1, 1024)
                  ))
                   s) Evantal notation quizzes) (/dashboards/my current evaluation quizzes)
       alexa@ubuntu:~/0x03-log_parsing$ ./0-generator.py | ./0-stats.py
       File size: 5213
12401: Curriculums(/dashboards/my_curriculums)
       403: 2
       404: 1
  ■ 405: Concepts(/concepts)
       500: 3
       File size: 11320
   200: 

Sonference rooms(/dashboards/video_rooms)
        301: 2
       400: 1
     401: 2Servers(/servers)
       403: 3
       404: 4
1_405: Sandboxes(/user_containers/current)
       500: 3
       File size: 16305
    ▶200: 3Tools(/dashboards/my_tools)
       301: 3
       400: 4
 ##401: 2/ideo on demand(/dashboards/videos)
       403: 5
       404: 5
       405: 4
        500: 4
       CFile Peers (/users/peers)
       200: 4
        301: 3
 400: Discord(https://discord.com/app)
        401: 2
       403: 6
       404: 6
       405: 4
       500: 4
       Trace Mx Profiles (users (mx_profile) ast):
```

File "./0-stats.py", line 15, in <module> Traceback (most recent call last): File "./0-generator.py", line 8, in <module> (/) for line in sys.stdin: KeyboardInterrupt sleep(random.random()) Home() KeyboardInterrupt alexa@ubuntu:~/0x03-log_parsing\$ My Planning(/planning/me) Repo: Projects(/projects/current)
• GitHub repository: alx-interview • Directory: 0x03-log_parsing File Actions by an make (/corrections/to_review) ? Check ร**นิทสโมล**ิเด็ดท**qบันสุดร⊮รโสธ**hboards/my_current_evaluation_quizzes) Curriculums(/dashboards/my_curriculums) Copyright @ 2024 ALX, All rights reserved. Concepts(/concepts) Conference rooms(/dashboards/video_rooms) Servers(/servers) Sandboxes(/user_containers/current) Tools(/dashboards/my_tools) 用 Video on demand(/dashboards/videos) Peers(/users/peers) Discord(https://discord.com/app) My Profile(/users/my_profile)