Web Server Logs

1
point

1.

Suppose a web log is modified to now have a sixth piece of information, a priority, that can be represented as a String.

Which one of the following is the <u>least</u> likely change to the LogEntry class to accommodate this new part of a web log?

- (●) The **toString** method is modified to include a String parameter.

- ( ) A new String field is initialized in the constructor.

- ( ) A new private variable named **priority** is created.

- ( ) A new String parameter is added to the constructor.

- ( ) The **toString** method is modified to include the new priority as part of the return String.

- ( ) A new **getPriority** method is created to return the priority.

1
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2.

Consider the following code for the **readFile** method of the **LogAnalyzer** class.

```
1   public void readFile(String filename) {
2       FileResource fr = new FileResource(filename);
3       for (String line : fr.lines()) {
4           LogEntry le = WebLogParser.parseEntry(line);
5       }
6   }
```

In the **Tester** class, **readFile** is called with a correct filename, and then **printAll** is called, but nothing is printed.

Which one of the following is likely the best reason why?

- ( ) In **readFile**, a **System.out.println** statement is missing that should be right after the for loop.

- (●) In **readFile**, the log entries were not stored in **records**.

- ( ) In **readFile**, the wrong parameter is sent to **parseEntry**.

- ( ) In **readFile**, a **System.out.println** statement is missing from the body of the for loop.

○ In **readFile**, a **System.out.println** statement is missing that should be right before the for loop.

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3.

Consider the following code for the method **printAllHigherThanNum** with one integer parameter **num**. This method should print all the logs that have a status code higher than **num**.

Which one of the following would be the best choice for suitable code for this method?

◉
```
1   for (LogEntry le : records) {
2       if (le.getStatusCode() > num) {
3           System.out.println(le);
4       }
5   }
```

○
```
1   if (le.getStatusCode() > num) {
2       for (LogEntry le : records) {
3           if (le.getStatusCode() > num) {
4               System.out.println(le);
5           }
6       }
7   }
```

○
```
1   if (le.getStatusCode() > num) {
2       for (LogEntry le : records) {
3           System.out.println(le);
4       }
5   }
6   else {
7       System.out.println();
8   }
```

○
```
1   for (LogEntry le : records) {
2       if (le.getStatusCode() > num) {
3           System.out.println(le);
4       }
5       else {
6           System.out.println();
7       }
8   }
```

○
```
1   if (le.getStatusCode() > num) {
2       for (LogEntry le : records) {
3           System.out.println(le);
4       }
5   }
```

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4.

Run the method **countUniqueIPs** on the file **weblog2_log**.

How many unique IP addresses are in the file?

45

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5.

Run the method **uniqueIPVisitsOnDay("Sep 24")** on the file **weblog2_log**.

What size is the ArrayList that is returned?

14

1
point

6.

Run the method **countUniqueIPsInRange(200,299)** on the file **weblog2_log**.

What number is returned?

40

1
point

7.

Run the method **mostNumberVisitsByIP** after a HashMap has been created from the method **countVisitsPerIP** on the file **weblog2_log**.

What number is returned?

63

1
point

8.

Run the method **iPsMostVisits** after a HashMap has been created from the method **countVisitsPerIP** on the file **weblog2_log**.

What single IP address is returned in the ArrayList?

○ 103.57.41.178

◉ 188.162.84.63

○ 200.69.213.251

○ 210.4.104.99

○ 212.128.74.248

1 point

9.

Run the method **dayWithMostIPVisits** with a HashMap has been created from the method **iPsForDays** on the file **weblog2_log**.

What day is returned?

- ⦿ Sep 24
- ◯ Sep 26
- ◯ Sep 28
- ◯ Sep 30

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1 point

10.

Run the method **iPsWithMostVisitsOnDay** with two parameters—one, a HashMap that has been created from the method **iPsForDays** on the file **weblog2_log** and two, the day "Sep 30".

Two IP addresses are returned in the ArrayList—which are they?

- ☑ 66.67.61.44
- ☐ 103.57.41.178
- ☑ 106.220.155.36
- ☐ 188.162.84.63
- ☐ 210.4.104.99
- ☐ 212.128.74.248

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