

Web Server Logs

Quiz, 10 questions

1
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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 least likely change to the LogEntry class to accommodate this new part of a web log?

- ☐ The **toString** method is modified to include the new priority as part of the return String.
- ☐ The **toString** method is modified to include a String parameter.
- ☐ A new String parameter is added to the constructor.
- ☐ A new private variable named **priority** is created.
- ☐ A new **getPriority** method is created to return the priority.
- ☐ A new String field is initialized in the constructor.

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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 before the for loop.
- ☐ In **readFile**, a **System.out.println** statement is missing from the body of the for loop.
- ☐ In **readFile**, the wrong parameter is sent to **parseEntry**.

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☐ In **readFile**, the log entries were not stored in **records**.

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

```
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  }
```
- ☐

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

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

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4.

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

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How many unique IP addresses are in the file?

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Enter answer here

1
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5.

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

What size is the ArrayList that is returned?

Enter answer here

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6.

Run the method **countUniqueIPsInRange(400,499)** on the file **weblog2_log**.

What number is returned?

Enter answer here

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7.

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

What number is returned?

Enter answer here

1
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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

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☐ 188.162.84.63☐ 200.69.213.251☐ 210.4.104.99☐ 212.128.74.248

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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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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

I, **Maruf Hassan**, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.