

Finding Unique IP Addresses

Practice Quiz, 4 questions

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1.

Consider the following version of **readFile** called **readFileWithUniqueStatus**, in which a learner wants to read in web log entries, but only put a LogEntry in **records** if it hasn't seen the LogEntry's status code before. Thus, the entries in **records** would have unique status codes.

```
1 public void readFileWithUniqueStatus (String filename) {  
2     FileResource fr = new FileResource(filename);  
3     for (String line : fr.lines()) {  
4         LogEntry le = WebLogParser.parseEntry(line);  
5         if (! records.contains(le.getStatusCode())) {  
6             records.add(le);  
7         }  
8     }  
9 }
```

This method runs, but it puts **all** the web log entries in **records**, including the duplicates.

Which of the following is the best answer for explaining both the reason why this method does not work and how to fix it?

- ☐ The method does not work because a status code is compared to a LogEntry. If the if statement is changed to compare LogEntries:

```
1 if (! records.contains(le)) {  
2     records.add(le);  
3 }
```

Then it should work.

- ☐ The method does not work because a status code is compared to a LogEntry. Instead, a for loop is needed to iterate over **all** the status codes of the LogEntries in **records** to check to see if the **statusCode** is already in there. After looping, if it is not in there, then the LogEntry can be added to **records**.
- ☐ The method does not work because the status code is not compared nor entered into **records**. If the if statement is changed to

```
1 if (! records.contains(le.getStatusCode())) {  
2     records.add(le.getStatusCode());  
3 }
```

Then it should work.

- ☐ The method does not work because the status code is not entered into records. If the if statement is changed to:

```
1 if (! records.contains(le)) {  
2     records.add(le.getStatusCode());  
3 }
```

Then it should work.

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2.

Run the method **printAllHigherThanNum(400)** on the file **weblog1_log**.

Of **all** the web logs printed, what are the unique status codes printed?

- ☐ Only 404
 - ☐ 404, 408, and 409
 - ☐ 404, 409, and 500
 - ☐ 408, 409, and 416
-

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3.

Run the method **uniqueIPVisitsOnDay("Mar 24")** on the file **weblog1_log**.

What size is the ArrayList that is returned?

Enter answer here

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4.

Run the method **countUniqueIPsInRange(300,399)** on the file **weblog1_log**.

What number is returned?

Enter answer here

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