cse-15l-lab-report4

CSE 15L lab report 4

Log into ieng6

```
79250@Alice MINGW64 ~/Desktop/CSE15/cse15l-lab-report4
$ ssh cs15lfa23gc@ieng6.ucsd.edu
```

- type ssh and copy the url from WEEK2's note.
- pressed ← until the cursor move to zz.
- replace zz to gc.
- press <enter> to connect ieng6 server.

```
Last login. Fri Nov. 17 21:53:09 2023 from 128.54.150.132
Hello c515fa23gc, you are currently logged into ieng6-202.ucsd.edu
You are using 0% CPU on this system
Cluster Status
Hostname Time #Users Load Averages
ieng6-201 22:55:01 15 20.37, 21.79, 22.93
ieng6-202 22:55:01 15 5.08, 4.44, 3.52
ieng6-202 22:55:01 10 4.54, 4.70, 7.09

Fri Nov. 17, 2023 10:57pm = Prepping cs151fa23
[cs151fa23gc@ieng6-202]:-:230$
```

Clone your fork of the repository from your Github account (using the SSH URL)

```
[Cashifa2gaGane] consequence of the consequence of
```

• type git clone and copy and paste the url from my fork respository. press <enter> .

Run the tests, demonstrating that they fail

```
(cs.) (fa.) (cs.) (cs.)
```

- type cd and then type cse<tab> . It autofill the folder name. press <enter> to change the current work directory to cse-151-lab/
- type bash and then type tes<tab> . It autofill the bash file name. press <enter> to run the test.

Edit the code file to fix the failing test

• type vim and then type List<tab>.java to open ListExamples.java in vim.

• type /index1<enter> to search "index1" text in the file. It will move the cursor to the first character of the first matching word.

```
/ index1 < enter> to search "index1" text in the fil
/ and return a new list that has all the strings in both list in so
title list-strings merget(ist-string) list), list-strings lists list-strings list) {
List-strings result = new ArrayList->();
while(index1 < list-list-list) & index2 < list2.size() & index2 < list2.size() & index2 < list3.size() & index2 < list3.size() & index3 < list3.size() & index1 < list3.size() & index1 < list3.size() & index2 < list3.size() & index1 < list3.size() & index1 < list3.size() & index2 < list3.size() & index1 < list3.size() & index1 < list3.size() & index2 < list3.size() & index2 < list3.size() & index1 < list3.size() & index2 < list3.size() & index3 < lind size() & index3 < lind size() & index3 < lind size() & index3 < lind siz
                               else {
  result.add(list2.get(index2));
  index2 += 1;
          while(index1 < list1.size()) {
  result.add(list1.get(index1));
  index1 += 1;
}</pre>
       }
while(index2 < list2.size()) {
  result.add(list2.get(index2));
  // change index1 below to index2 to fix test
  |index1 += 1;</pre>
                        eturn result;
```

• type n 9 times, n will move the cursor to the next matching word. so the cursor move to the "index1" we want to fix.

```
// and return a new list that has all the strings in both list in static List<String> merge(List<String> list1, List<String> list2)
List<String> result = new ArrayList<>();
int index1 = 0, index2 = 0;
while(index1 < list1.size() && index2 < list2.size()) {
    if(list1.get(index1).compareTo(list2.get(index2)) < 0) {
        result.add(list1.get(index1));
        index1 += 1:
               result.add(list2.get(index2));
index2 += 1;
  while(index1 < list1.size()) {
  result.add(list1.get(index1));
  index1 += 1;</pre>
  }
while(index2 < list2.size()) {
  result.add(list2.get(index2));
  // change index1 below to index2 to fix test
  index1 += 1;</pre>
    return result;
```

- type i change to insert mode.
- press >>>>> to move the cursor on 1.

```
while(index2 < list2.size()) {
  result.add(list2.get(index2));
  // change index1 below to index2 to fix test</pre>
  index2 += 1;
return result;
```

- press <backspace> to delete 1 and then type 2.
- press <esc> to go back normal mode.

```
// And return a new list that has all the strings in both list in solution is interested in the string in both list in solution is interested in the string in both list in solution is interested in the string in the string interested in the string in the string
                                                result.add(list2.get(index2));
index2 += 1;
        while(index1 < list1.size()) {
  result.add(list1.get(index1));
  index1 += 1;</pre>
    }
while(index2 < list2.size()) {
  result.add(list2.get(index2));
  // change index1 below to index2 to fix test
  index2 += 1;</pre>
```

• type :wq<enter> to save and quit vim.

Run the tests, demonstrating that they now succeed

```
[cs151fa23gc@ieng6-202]:cse-151-lab7:224$ bash test.sh

JUnit version 4.13.2

Time: 0.015

OK (2 tests)

[cs151fa23gc@ieng6-202]:cse-151-lab7:225$
```

- type 11 to access the bash history and get the bash test.sh command.
- press <enter> to run the test and get success.

Commit and push the resulting change to your Github account (you can pick any commit message!)

git add

```
[cs15]fa23gc@ieng6-202]:cse-15]-lab7:2255 git add *
The following paths are ignored by one of your .gitignore files:
ListExamples.class
ListExamplesTests.class
StringChecker.class
hint: Use -f if you really want to add them.
hint: Turn this message off by running
hint: "git config advice.addIgnoredFile false"
```

- git add * to add all change in the working directory to the staging area.
- The files methioned in .gitignore file would be ignore when add.

git commit

```
[csi3]fa23gc@ieng6-202]:cse-i5]-lab7:226$ git commit -m "Debug index"
[main 246/93b] Debug index
Committer: Jiawei Huang <csi5]fa23gc@ieng6-202.ucsd.edu>
Our name and email address were configured automatically based on your username and hostname. Please check that they are accurate. You can suppress this message by setting them explicitly. Run the following command and follow the instructions in your editor to edit your configuration file:

git config --global --edit

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

1 file changed, 1 insertion(+), 1 deletion(-)
```

• git commit -m "Debug index": submit changes in the staging area to the local repository, and add message "Debug index".

git push

```
[cs15]fa23gc@ieng6-202]:cse-15]-lab7:227$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/1), done.
Writing objects: 100% (3/3), 298 bytes | 298.00 KiB/s, done.
Total 3 (delta 2), reuse2 2 (delta 2), pack-reused 0
Total 3 (delta 2), reuse3 2 (delta 2), pack-reused 0
To github com: Soul Coder 3/cse-15] ab7. git
To github com: Soul Coder 3/cse-15] ab7. git
[cs15]fa23gc@ieng6-202]:cse-15]-lab7:228$
```

• git push: submit changes in local repository to remote repository.

```
while(index2 < list2.size()) {
  result.add(list2.get(index2));
  // change index1 below to index2 to fix test
  index2 += 1;
}</pre>
```

• double check the change in remote repository.