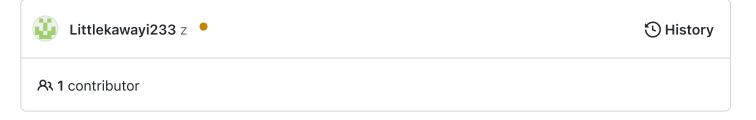
☐ Littlekawayi233 / cse15l-lab-reports (Public)

cse15I-lab-reports / lab-report-5-week-9.md



Part 1

```
CPATH=::lib/hamcrest-core-1.3.jar:lib/junit-4.13.2.jar
rm -rf student-submission
git clone $1 student-submission
cp TestListExamples.java student-submission/
cp -R lib student-submission
cd student-submission
if [[ -e TestListExamples.java ]]
then
    javac -cp $CPATH *.java 2> stderror.txt
else
    echo "File does not exist"
    exit 1
fi
[ -s stderror.txt ]
if ! [ $? -eq 0 ]
    java -cp $CPATH org.junit.runner.JUnitCore TestListExamples 1>
stdoutput.txt
    echo "File does not compile"
    exit 1
fi
```

```
filtertest=$(grep -o -i "filtertest" TestListExamples.java | wc -l)

mergetest=$(grep -o -i "mergetest" TestListExamples.java | wc -l)

filterfailed=$(grep -o -i " filtertest" stdoutput.txt | wc -l)

mergefailed=$(grep -o -i " mergetest" stdoutput.txt | wc -l)

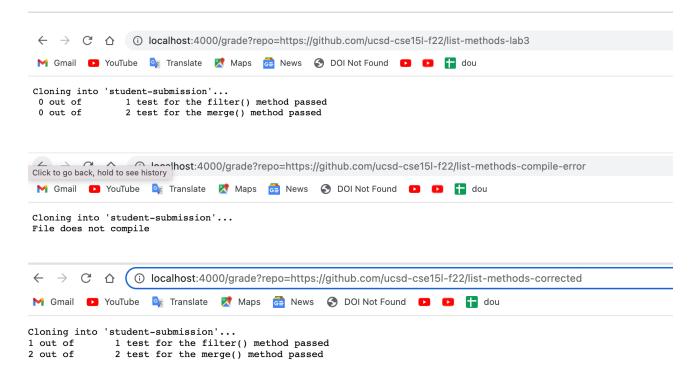
filterpassed=$(echo "$filtertest-$filterfailed" | bc)

mergepassed=$(echo "$mergetest-$mergefailed" | bc)

echo " $filterpassed out of $filtertest test for the filter() method passed"

echo " $mergepassed out of $mergetest test for the merge() method passed"
```

Part 2



Part 3

I choose the second one as an example to describe what grade.sh does on that.

```
CPATH=::lib/hamcrest-core-1.3.jar:lib/junit-4.13.2.jar
```

The CPATH stores .:lib/hamcrest-core-1.3.jar:lib/junit-4.13.2.jar

```
rm -rf student-submission
```

The rm -rf command removes the old student-submission directory.

```
git clone $1 student-submission
```

git clone takes url as an parametr to clone the student submissions and store it in student-submission directory

```
cp TestListExamples.java student-submission/
```

cp copies java file TestListExample to the student-submission directory

```
cp -R lib student-submission
```

cp -R copies lib directory to the student-submission directory

```
cd student-submission
```

cd changes the current directory to the student-submission

```
if [[ -e TestListExamples.java ]]
```

-e checks if the file exists The condition of this if statement is true here as the file exists.

```
javac -cp $CPATH *.java 2> stderror.txt
```

Then, javac would compile the file and redirect the error message to the stderror.txt.

```
else
    echo "File does not exist"
    exit 1
```

The else section does not run as the file exists so the if condition is true.

fi

fi exit the if statement.

```
[ -s stderror.txt ]
```

This line of code is used to check the size of stderror.txt.

```
if ! [ $? -eq 0 ]
```

The \$? would be zero if stderror.txt is not empty and would be some other number otherwise. In this case, it equals to 0.

```
then
    java -cp $CPATH org.junit.runner.JUnitCore TestListExamples 1>
stdoutput.txt
```

This block of codes is skipped as the if condition is false.

```
else
    echo "File does not compile"
    exit 1
```

It prints the message "File does not compile" as the file has error and exit.

fi

fi exit the if statement

The rest of the grdes.sh code does not run as the exit code 1 stops the program there.