Cade Raichart
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Assignment 2

Program Description (15 points)

Provide details of the Calendar application?, what does each class do (provide the number of public methods, private methods, source lines of code(SLOC)) ? (15 points)

1) The Appt Class is an object that consists of startHour, startMinute, startDay, startMonth, startYear, title and description. It also has the ability to be stored into time table

2) The Time table class collects appointments between given two dates.

3) calday class has the ability to store all the appointments created for a single calendar day. It can also create a new calendar day, as well as increase the day by one.

4) Calendar main class runs the program, it finds the current day calls the other classes to create a appointment for the day and adds them as you want

5) how many public methods?

32 methods

6) how many private methods?

14 methods

7) source lines of code:

98 lines on CalendarMain.java

72 lines on TimeTable.java

92 lines on CalDay.java

112 lines on Appt.java

The Utility of the code coverage tool (35 points)

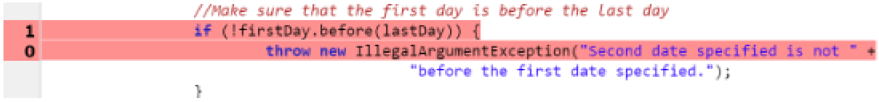
Commentary on how well the test cases cover the source code of the Calendar application.

1) I have 96% coverage on the Appt Class, I also have 100% coverage on the calday, and also 89% TimeTable. Its nice to know how much I have covered but I don't understand completely how to get 100% on each class.

How many test cases did you generate?

15 test cases where generated.

Point out some code, if any, that your test cases do not cover. I want you to look at the Calendar code coverage and find out what parts of your code are not covered so that in future you can improve your test suite. (15 points)



```
          //Make sure that the first day is before the last day
  1       if (!firstDay.before(lastDay)) {
  0           throw new IllegalArgumentException("Second date specified is not " +
                      "before the first date specified.");
          }
```

here is some lines I know did not get covered.

◦ From a testing perspective, what is the advantage of using a code coverage tool like

Cobertura? how it helped/didn't help, etc. (10 points)

Well for one you can find all the lines of code that you missed. It makes you feel like your code is bug less when it is at 100% when nothing actually happened.

Unit Testing Efforts (10 points)

Discuss your unit testing efforts and your experience testing the Calendar application.

1) it’s a different kind then I have every done before, I did like using this application to learn unit testing. I liked it because it was easy strait forward and nothing was really thrown at me

◦ Document the status and your view of the reliability of the Calendar application.

1) Its clanky, has to re-print the whole thing if something is deleted. I would say its reliably for easy going things, but not something important like the government officials.