# Guided Project 3: Black Box Test Plan

There are 15 system-level **provided** black box tests. You will revise the existing tests to meet the new requirements. Additionally, you will write another **5 black box tests** for a total of **20 tests.**

**Identify *changed tests* by highlighting the row in light gray. Also, annotate the Test ID column with the tag (Modified).**

**Identify *new tests* by highlighting the row in a darker gray. Also, annotate the Test ID column with the tag (New).**

All tests are worth 1 point for a total of 20 points. For each test, half a point is for passing the test and half a point is for reporting the actual results of running the test on YOUR program - even if the test if failing! There are global deductions for incorrect highlighting.

To run the tests:

1. Right click on WolfSchedulerGUI class in the Package Explorer.
2. Select Run As > Java Application

The FileChooser for the course catalog will load automatically.

All tests files are located in the test-files/ folder.

Note that while all tests end with the statement to Close GUI, you can run Tests 2-15 on the same GUI if there are no failures. If there are failures, you can use the preconditions to identify the dependent test cases. Tests 16-20 should start on a new GUI(separate from the one from tests 2-15), but tests 16-20 can be run on the same GUI, Reset the schedule each time before moving on to a new test.

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1: Invalid File | Preconditions: None  Run WolfSchedulerGUI.  In the **Load Course Catalog** FileChooser dialog select: test-files/invalid\_course\_records.txt  Click **Select**  *Check results*  Close GUI | WolfSchdulerGUI loads  Course Catalog is empty  My Schedule is empty  Course Details only shows labels | WolfSchdulerGUI loads  Course Catalog is empty  My Schedule is empty  Course Details only shows labels |
| Test 2: Valid File | Preconditions: None  Run WolfSchedulerGUI.  In the **Load Course Catalog** FileChooser dialog select: test-files/course\_records.txt  Click **Select**  *Check results*  Close GUI | WolfSchdulerGUI loads  Course Catalog contains 8 classes   * CSC116, 001, Intro to Programming - Java, MW 9:10AM-11:00AM * CSC116, 002, Intro to Programming - Java, 11:20AM-1:10PM * CSC116, 003, Intro to Programming - Java, 11:20AM-1:10PM * CSC216, 001, Programming Concepts - Java, TH 1:30PM-2:45PM * CSC216, 002, Programming Concepts - Java, MW 1:30PM-2:45PM * CSC216, 601, Programming Concepts - Java, Arranged * CSC226, 001, Discrete Mathematics for Computer Scientists,MWF 9:35AM-10:25AM * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM   My Schedule is empty  Course Details only shows labels | WolfSchdulerGUI loads  Course Catalog contains 8 classes   * CSC116, 001, Intro to Programming - Java, MW 9:10AM-11:00AM * CSC116, 002, Intro to Programming - Java, 11:20AM-1:10PM * CSC116, 003, Intro to Programming - Java, 11:20AM-1:10PM * CSC216, 001, Programming Concepts - Java, TH 1:30PM-2:45PM * CSC216, 002, Programming Concepts - Java, MW 1:30PM-2:45PM * CSC216, 601, Programming Concepts - Java, Arranged * CSC226, 001, Discrete Mathematics for Computer Scientists,MWF 9:35AM-10:25AM * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM   My Schedule is empty  Course Details only shows labels |
| Test 3: Add - No Sel. | Preconditions: Test 2 has passed  Make sure that no row in the Course Catalog table is selected (if there is a row selected, restart the GUI)  Click **Add Course**  *Check results*  Click **OK**  Close GUI | A pop-up dialog stating “No course selected in the catalog.” is displayed. | A pop-up dialog stating “No course selected in the catalog.” is displayed. |
| Test 4: Add | Preconditions: Test 2 has passed  Select the 4th row of the Course Catalog table (CSC216, 001, Programming Concepts - Java)  *Check results*  Click **Add Course**  *Check results*  Close GUI | Course Details are displayed   * Name: CSC216 * Section: 001 * Title: Programming Concepts - Java * Instructor: sesmith5 * Credits: 4 * Meeting: TH 1:30PM-2:45PM   Course CSC216, 001, Programming Concepts - Java, TH 1:30PM-2:45PM is listed in the My Schedule table | Course Details are displayed   * Name: CSC216 * Section: 001 * Title: Programming Concepts - Java * Instructor: sesmith5 * Credits: 4 * Meeting: TH 1:30PM-2:45PM   Course CSC216, 001, Programming Concepts - Java, TH 1:30PM-2:45PM is listed in the My Schedule table |
| Test 5: Remove - No Sel. | Preconditions: Test 2 and Test 4 have passed  Make sure that no row in the My Schedule table is selected (if there is a row selected, restart the test)  Click **Remove Activity**  *Check results*  Click **OK**  Close GUI | A pop-up dialog stating “No item selected in the schedule.” is displayed. | A pop-up dialog stating “No item selected in the schedule.” is displayed. |
| Test 6: Add Same Course | Preconditions: Test 2 and Test 4 have passed  Select the 5th row of the Course Catalog table (CSC216, 002, Programming Concepts - Java)  *Check results*  Click **Add Course**  *Check results*  Close GUI | Course Details are displayed   * Name: CSC216 * Section: 002 * Title: Programming Concepts - Java * Instructor: jtking * Credits: 4 * Meeting: MW 1:30PM-2:45PM   A pop-up dialog stating “You are already enrolled in CSC216” is displayed. | Course Details are displayed   * Name: CSC216 * Section: 002 * Title: Programming Concepts - Java * Instructor: jtking * Credits: 4 * Meeting: MW 1:30PM-2:45PM   A pop-up dialog stating “You are already enrolled in CSC216” is displayed. |
| Test 7: Reset | Preconditions: Test 2 and Test 4 have passed  Click **Reset Schedule**  *Check results*  Close GUI | My Schedule table is empty | My Schedule table is empty |
| Test 8: Add Several  (modified) | Preconditions: Test 2 has passed  Select the 6th row of the Course Catalog table (CSC216, 601, Programming Concepts - Java)  Click **Add Course**  Select the 2th row of the Course Catalog table (CSC116, 002, Intro to Programming - Java)  Click **Add Course**  Enter the following in the Add Event section:   * Event Title: Exercise * Event Weekly Repeat: 1 * Meeting Days: Mon, Tue, Thu, Fri * Event Start Time: 8:00AM * Event End Time: 9:00AM * Details: Cardio days   Click **Add Event**  Select the 8th row of the Course Catalog table (CSC230, 001, C and Software Tools)  Click **Add Course**  Select the 7th row of the Course Catalog table (CSC226, 001, Discrete Mathematics for Computer Scientists)  Click **Add Course**  Check results  Click ok  Enter the following in the Add Event section:   * Event Title: Lunch * Event Weekly Repeat: 1 * Meeting Days: Mon, Tue, Wed, Thu, Fri * Event Start Time: 11:45AM * Event End Time: 1:00PM * Details:   Click **Add Event**  *Check results*  *Click ok*  Close GUI | My Schedule displays:   * CSC216, 601, Programming Concepts - Java, Arranged * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM * Exercise, MTHF 8:00AM-9:00AM (every 1 weeks) * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM   **When adding the following you get the respective errors**   * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM * A pop-up box that says “The course cannot be added due to a conflict”   Returned to schedule above with no change   * Lunch, MTWHF, 11:45AM-1:00PM (every 1 weeks) * A pop-up box that says “The event cannot be added due to a conflict”   Returned to schedule above with no change | My Schedule displays:   * CSC216, 601, Programming Concepts - Java, Arranged * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM * Exercise, MTHF 8:00AM-9:00AM (every 1 weeks) * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM   **When adding the following you get the respective errors**   * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM * A pop-up box that says “The course cannot be added due to a conflict”   Returned to schedule above with no change   * Lunch, MTWHF, 11:45AM-1:00PM (every 1 weeks) * A pop-up box that says “The event cannot be added due to a conflict”   Returned to schedule above with no change |
| Test 9: Remove  (modified) | Preconditions: Test 2 and Test 8 have passed  Select the 2nd row of the My Schedule table (CSC116, 002, Intro to Programming - Java)  Click **Remove Activity**  Select the 3rd row of the My Schedule table (Exercise)  Click **Remove Activity**  Enter the following in the Add Event section:   * Event Title: Lunch * Event Weekly Repeat: 1 * Meeting Days: Mon, Tue, Wed, Thu, Fri * Event Start Time: 11:00AM * Event End Time: 11:40AM * Details:   Click **Add Event**  Select the 8th row of the Course Catalog table (CSC230, 001, C and Software Tools)  Click **Add Course**  Close GUI | My Schedule displays:   * CSC216, 601, Programming Concepts - Java, Arranged * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 11:00AM-11:40AM (every 1 weeks) * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM | My Schedule displays:   * CSC216, 601, Programming Concepts - Java, Arranged * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 11:00AM-11:40AM (every 1 weeks) * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM |
| Test 10: Set Title | Preconditions: Test 1 or Test 2 have passed  Enter “My Super Awesome Schedule” into the Schedule Title text field  Click **Set Title**  *Check results*  Close GUI | The label on the third section of the GUI now contains the text “My Super Awesome Schedule” instead of “My Schedule” | The label on the third section of the GUI now contains the text “My Super Awesome Schedule” instead of “My Schedule” |
| Test 11: Finalize  (Modified) | Preconditions: Test 2 and Tests 8-10 have passed  Click **Display Final Schedule**  *Check results*  Close GUI | Schedule Title: “My Super Awesome Schedule”  Schedule Table   * CSC216, 601, Programming Concepts - Java, Arranged * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 11:00AM-11:40AM (every 1 weeks) * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM | Schedule Title: “My Super Awesome Schedule”  Schedule Table   * CSC216, 601, Programming Concepts - Java, Arranged * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 11:00AM-11:40AM (every 1 weeks)   CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM |
| Test 12: Export | Preconditions: Test 2 and Tests 8-11 have passed  Click **Export Schedule**  Select test-files folder. Enter the filename actual\_schedule.txt  Click **Save** (it’s ok to overwrite old results)  *Check results*  Close GUI | In Eclipse, right click on the WolfScheduler project and select **Refresh.**  Open the test-files folder and open actual\_schedule.txt in the editor.  The contents should be:  CSC216,Programming Concepts - Java,601,4,jep,A  CSC226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,MWF,935,1025  Lunch,MTWHF,1100,1140,1,  CSC230,C and Software Tools,001,3,dbsturgi,MW,1145,1300 | In Eclipse, right click on the WolfScheduler project and select **Refresh.**  Open the test-files folder and open actual\_schedule.txt in the editor.  The contents should be:  CSC216,Programming Concepts - Java,601,4,jep,A  CSC226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,MWF,935,1025  Lunch,MTWHF,1100,1140,1,  CSC230,C and Software Tools,001,3,dbsturgi,MW,1145,1300 |
| Test 13: Revise | Preconditions: Test 2 and Tests 8-11 have passed  Click **Revise Schedule**  *Check Results*  Close GUI | The Scheduler view is shown with   * 8 courses listed in the catalog * My Super Awesome Schedule as the schedule title * 3 courses in my schedule (CSC216-601, CSC226-001, CSC230-001) and 1 event (Lunch) |  |
| Test 14: Add Event  (Modified) | Preconditions: Test 2 and Test 4 have passed  Enter the following in the Add Event section:   * Event Title: Study for CSC230 * Event Weekly Repeat: 2 * Meeting Days: Mon and Wed * Event Start Time: 2:30PM * Event End Time: 3:30PM * Details: Do the homework   Click **Add Event**  *Check results*  Close GUI | Schedule Title: “My Super Awesome Schedule”  Schedule Table   * CSC216, 601, Programming Concepts - Java, Arranged * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 11:00AM-11:40AM (every 1 weeks) * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM * Study for CSC230, MW, 2:30PM-3:30PM (every 2 weeks) | Schedule Title: “My Super Awesome Schedule”  Schedule Table   * CSC216, 601, Programming Concepts - Java, Arranged * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 11:00AM-11:40AM (every 1 weeks) * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM   Study for CSC230, MW, 2:30PM-3:30PM (every 2 weeks) |
| Test 15: Duplicate Event | Preconditions: Test 2, Test 4, and Test14 have passed  Enter the following in the Add Event section:   * Event Title: Lunch * Event Weekly Repeat: 1 * Meeting Days: Tue * Event Start Time: 12:00PM * Event End Time: 1:30PM * Details: Lunch with mom   Click **Add Event**  *Check results*  Click **OK**  Close GUI | A pop-up dialog stating “You have already created an event called Lunch.” is displayed. | A pop-up dialog stating “You have already created an event called Lunch.” is displayed. |
| Test 16:  Conflicting activities same day and same time  (New) | Preconditions: all tests 1-15 pass.  Start a new GUI  select: test-files/course\_records.txt  Click **Select**  Select the “CSC226, 001, Discrete Mathematics for Computer Scientists,MWF 9:35AM-10:25AM**”** course  Click **Add Course**  Check results  Enter the following in the Add Event section:   * Event Title: Study for CSC230 * Event Weekly Repeat: 2 * Meeting Days: Mon and Wed and Fri * Event Start Time: 9:35AM * Event End Time: 10:25AM * Details: Do the homework   Click **Add Event**  *Check results*  Click ok  Close GUI | Schedule Table   * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM   A pop-up box says “The event cannot be added due to a conflict”  Returned to schedule above with no change | Schedule Table   * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM   A pop-up box says “The event cannot be added due to a conflict”  Returned to schedule above with no change |
| Test 17: Different days same time Activities  (New) | Preconditions: Test 16 passes, start new GUI or click reset schedule. If new GUI is started select : test-files/course\_records.txt  Select the “CSC226, 001, Discrete Mathematics for Computer Scientists,MWF 9:35AM-10:25AM**”** course  Click **Add Course**  Check results  Enter the following in the Add Event section:   * Event Title: Study for CSC230 * Event Weekly Repeat: 2 * Meeting Days: Tues and Thurs * Event Start Time: 9:35AM * Event End Time: 10:25AM * Details: Do the homework   Click **Add Event**  *Check results*  Click ok  Close GUI | Schedule Table   * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Study for CSC230, TH, 9:35AM-10:25AM (every 2 weeks) | Schedule Table   * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM   Study for CSC230, TH, 9:35AM-10:25AM (every 2 weeks) |
| Test 18: Activities with a 5-minute difference  (New) | Preconditions: Test 16 passes, start new GUI or click reset schedule. If new GUI is started select: test-files/course\_records.txt  Select the “CSC226, 001, Discrete Mathematics for Computer Scientists,MWF 9:35AM-10:25AM**”** course  Click **Add Course**  Check results  Enter the following in the Add Event section:   * Event Title: Study for CSC230 * Event Weekly Repeat: 2 * Meeting Days: Mon and Wed * Event Start Time: 10:30AM * Event End Time: 11:30AM * Details: Do the homework   Click **Add Event**  *Check results*  Click ok  Close GUI | Schedule Table   * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Study for CSC230, MW, 10:30AM-11:30AM (every 2 weeks) | Schedule Table   * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM   Study for CSC230, MW, 10:30AM-11:30AM (every 2 weeks) |
| Test 19:  Conflicting Courses  (New) | Preconditions: Test 16 passes, start new GUI or click reset schedule. If new GUI is started select: test-files/course\_records.txt  Select the “CSC116, 001, Intro to Programming - Java, MW 9:10AM-11:00AM” course.  Click Add course  Check results  Select the “CSC226, 001, Discrete Mathematics for Computer Scientists,MWF 9:35AM-10:25AM” course.  Click Add course  Check results  Click ok  Close GUI | Schedule Table   * CSC116, 001, Intro to Programming - Java, MW 9:10AM-11:00AM   A pop-up box says “The Course cannot be added due to a conflict”  Returned to schedule above with no change | Schedule Table   * CSC116, 001, Intro to Programming - Java, MW 9:10AM-11:00AM   A pop-up box says “The Course cannot be added due to a conflict”  Returned to schedule above with no change |
| Test 20:  Event start-time is the same as a Course end time  (New) | Preconditions: Test 16 passes, start new GUI or click reset schedule. If new GUI is started select: test-files/course\_records.txt  Select the “CSC226, 001, Discrete Mathematics for Computer Scientists,MWF 9:35AM-10:25AM**”** course  Click **Add Course**  Check results  Enter the following in the Add Event section:   * Event Title: Study for CSC230 * Event Weekly Repeat: 2 * Meeting Days: Mon and Wed * Event Start Time: 10:25AM * Event End Time: 11:30AM * Details: Do the homework   Click **Add Event**  *Check results*  Click ok  Close GUI | Schedule Table   * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM   A pop-up box says “The event cannot be added due to a conflict”  Returned to schedule above with no change | Schedule Table   * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM   A pop-up box says “The event cannot be added due to a conflict”  Returned to schedule above with no change |