

## Project part 2 BBTP

### Test Data:

#### room-data.txt

Room\_ID, Length Width

Office, 16, 18

Kitchen, 16, 16

Bedroom, 14, 18

Living Room, 30, 35

Bathroom, 12, 7

#### cleaning-logs.txt

Date, Room\_ID, Percent\_Cleaned

09/27/2023 14:42:02, Office,69

09/23/2023 08:52:55, Kitchen,88

09/25/2023 16:22:15, Bedroom,50

08/31/2023 5:48:11, Living Room,97

09/26/2023 11:54:32, Bathroom,7

### To start program:

Right click CleaningManagerUI.java>Run as>Java Application

Test ID	Description	Expected Results	Actual Results
<b>Test #1</b>  <b>testID:</b>  testValidStartup  <b>Strategy:</b>	<b>Preconditions:</b> <ul style="list-style-type: none"><li>CleaningManagerUI has successfully loaded.</li><li>The file room-data.txt exists</li></ul>	Menu pops up saying :  .Cleaning Manager Program - please choose an option:  F - View most frequently cleaned rooms	Menu pops up saying :  .Cleaning Manager Program - please choose an option:

<p><b>(Equivalence class - loading inventory from file)</b></p>	<ul style="list-style-type: none"> <li>The file cleaning-logs.txt exists</li> </ul> <p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>When prompted “<i>Input room log file:</i>” type: <b><i>input/room-data.txt</i></b>. Press <b>Enter</b></li> <li>When prompted “<i>Input cleaning log file:</i>” type: <b><i>input/cleaning-logs.txt</i></b>. Press <b>Enter</b></li> <li>Check Results</li> </ol>	<p>R - View a room report by cleanings</p> <p>V - View estimated remaining vacuum bag life</p> <p>Q - quit program</p> <p>Option:</p>	<p>F - View most frequently cleaned rooms</p> <p>R - View a room report by cleanings</p> <p>V - View estimated remaining vacuum bag life</p> <p>Q - quit program</p> <p>Option:</p>
<p><b>Test #2</b></p> <p><b>testID:</b></p> <p>testFrequentlyCleanedRooms</p> <p><b>Strategy:</b></p> <p><b>(Equivalence class - testing functionality)</b></p>	<p><b>Preconditions: 1</b></p> <ul style="list-style-type: none"> <li>CleaningManagerUI has successfully loaded.</li> <li>The file room-data.txt exists</li> <li>The file cleaning-logs.txt exists</li> <li>Program menu is open</li> </ul> <p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>Next to “<i>Option:</i>” type: <b><i>f</i></b> then press <b>Enter</b></li> <li>When prompted “<i>Number of rooms:</i>” type: 3 then press <b>Enter</b></li> <li>Check Results</li> </ol>	<p>Menu says:</p> <p>Number of rooms: 3</p> <p>Frequency of Cleanings [</p> <p>Office has been cleaned 2 times</p> <p>Bathroom has been cleaned 1 times</p> <p>Bedroom has been cleaned 1 times</p> <p>]</p> <p>.Cleaning Manager Program - please choose an option:</p> <p>F - View most frequently cleaned rooms</p>	<p>Menu says:</p> <p>Number of rooms: 3</p> <p>Frequency of Cleanings [</p> <p>Office has been cleaned 2 times</p> <p>Bathroom has been cleaned 1 times</p> <p>Bedroom has been cleaned 1 times</p> <p>]</p> <p>.Cleaning Manager Program - please choose an option:</p>

		R - View a room report by cleanings  V - View estimated remaining vacuum bag life  Q - quit program  Option:	F - View most frequently cleaned rooms  R - View a room report by cleanings  V - View estimated remaining vacuum bag life  Q - quit program  Option:
<b>Test #3</b>  <b>testID:</b> <b>testViewRoomReport</b>  <b>Strategy:</b>  <b>(Equivalence Class - Viewing Room Report)</b>	<b>Preconditions: 1</b> <ul style="list-style-type: none"> <li>• CleaningManagerUI has successfully loaded</li> <li>• The file room-data.txt exists</li> <li>• The file cleaning-logs.txt exists</li> <li>• Program menu is open</li> </ul> <b>Steps:</b> <ol style="list-style-type: none"> <li>1. Next to “<i>Option:</i>” type: <b>r</b> then press <b>Enter</b></li> <li>2. Check Results</li> </ol>	Menu says:  Room Report [  Bathroom was cleaned on [ 09/26/2023 11:54:32 ]  Bedroom was cleaned on [ 09/25/2023 16:22:15 ]  Living Room was cleaned on [ 08/31/2023 05:48:11 ]  Office was cleaned on [ 09/28/2023 12:15:02 09/27/2023 14:42:02	Menu says:  Room Report [  Bathroom was cleaned on [ 09/26/2023 11:54:32 ]  Bedroom was cleaned on [ 09/25/2023 16:22:15 ]  Living Room was cleaned on [ 08/31/2023 05:48:11 ]

		] ] .Cleaning Manager Program - please choose an option: F - View most frequently cleaned rooms R - View a room report by cleanings V - View estimated remaining vacuum bag life Q - quit program Option:	Office was cleaned on [ 09/28/2023 12:15:02 09/27/2023 14:42:02 ] ] .Cleaning Manager Program - please choose an option: F - View most frequently cleaned rooms R - View a room report by cleanings V - View estimated remaining vacuum bag life Q - quit program Option:
<b>Test #4</b> <b>testID:</b> <b>testVacuumBagLife</b>	<b>Preconditions: 1</b> <ul style="list-style-type: none"> <li>• CleaningManagerUI has loaded successfully</li> <li>• The file room-data.txt exists</li> <li>• The file cleaning-logs.txt exists</li> </ul>	Menu says: Enter time stamp(MM/DD/YYYY HH:MM:SS): 08/31/2023 05:48:10	Menu says: Enter time stamp(MM/DD/YYYY Y HH:MM:SS): 08/31/2023 05:48:10

<p><b>(Boundary Class - Viewing Vacuum life 1 second before first vacuum entry)</b></p>	<ul style="list-style-type: none"> <li>• Program menu is open</li> </ul> <p><b>Steps:</b></p> <ul style="list-style-type: none"> <li>- Next to “<i>Option:</i>” type: <b>V</b> then press <b>Enter</b></li> <li>- When prompted “<i>Enter time stamp(MM/DD/YYYY HH:MM:SS):</i>” type: <i>08/31/2023 05:48:10</i> then press <b>Enter</b></li> <li>- Check Results</li> </ul>	<p>Vacuum Bag Report (last replaced 08/31/2023 05:48:10) [</p> <p>Bag is due for replacement in 3564 SQ FT</p> <p>]</p> <p>Cleaning Manager Program - please choose an option:</p> <p>F - View most frequently cleaned rooms</p> <p>R - View a room report by cleanings</p> <p>V - View estimated remaining vacuum bag life</p> <p>Q - quit program</p> <p>Option:</p>	<p>Vacuum Bag Report (last replaced 08/31/2023 05:48:10) [</p> <p>Bag is due for replacement in 3564 SQ FT</p> <p>]</p> <p>Cleaning Manager Program - please choose an option:</p> <p>F - View most frequently cleaned rooms</p> <p>R - View a room report by cleanings</p> <p>V - View estimated remaining vacuum bag life</p> <p>Q - quit program</p> <p>Option:</p>
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<p><b>Test #5</b></p> <p><b>testID:</b></p> <p><b>testCloseManager</b></p> <p><b>(Equivalence class - closing out of UI)</b></p>	<p><b>Preconditions: 1</b></p> <ul style="list-style-type: none"> <li>• CleaningManagerUI has successfully loaded</li> <li>• The file room-data.txt exists</li> <li>• The file cleaning-logs.txt exists</li> <li>• Program menu is open</li> </ul> <p><b>Steps:</b></p> <ol style="list-style-type: none"> <li>1. Next to “<i>Option:</i>” type: <b>Q</b> then press <b>Enter</b>”</li> <li>2. <b>View Results</b></li> </ol>	<p>(Program terminates)</p> <p>Menu says:</p> <p>Program Terminating</p>	<p>(Program terminates)</p> <p>Menu says:</p> <p>Program Terminating</p>
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<p><b>Test #6</b></p> <p><b>testID:</b></p> <p><b>testCloseManager</b></p> <p><b>(Error/Exception - invalid file)</b></p>	<p><b>Preconditions:</b></p> <ul style="list-style-type: none"> <li>• CleaningManagerUI has successfully loaded.</li> <li>• The file room-data.txt exists</li> <li>• The file cleaning-logs.txt exists</li> </ul>	<p>Error message is printed:</p> <p><i>“Error opening input files”</i></p>	<p>Error message is printed:</p> <p><i>“Error opening input files”</i></p>
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	<p><b>Steps:</b></p> <ul style="list-style-type: none"><li>4. When prompted "<i>Input room log file:</i>" type: <b><i>input/room-data.txt</i></b>. Press <b>Enter</b></li><li>5. When prompted "<i>Input cleaning log file:</i>" type: <b><i>invalid.txt</i></b> Press <b>Enter</b></li><li>6. Check Results</li></ul>		
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