

BLACK BOX TEST PLAN

To run software from eclipse, right-click the project folder, and select **run as... > java application**.

It is preferable that the tests be run sequentially. Please make sure that the files listed below the test plan table exist and contain the provided data.

Test ID	Description	Expected Results	Actual Results
invalidFile (DT- trying to use file that doesn't exist.)	Preconditions: <ul style="list-style-type: none">SecurityMangerUI has been loadedthe file "nonexistent.txt" does not exist. Steps: <ul style="list-style-type: none">choose "load attack tree from fileswhen prompted for a preorder traversal file, type "nonexistent.txt" and press enter.	User is re-prompted: "File doesn't exist. Please choose a new file:"	
attackTreeBuild (ECP- building an attack tree with "sample-pre order.txt" and "sample-post order.txt"	Preconditions: <ul style="list-style-type: none">Test 1 passedThe files "sample-preorder.txt" and "sample-postorder.txt" exist. Steps: <ul style="list-style-type: none">Choose the option to load an attack tree filetype "sample-preorder.txt" and press enter.when prompted for a postorder traversal file, type "sample-postorder.txt" and press enter.	Program outputs goal root info: GOAL [Description0, C=62062.5, P=0.56, I=10.0]	
levelOrderTraversal (ECP - print a level-order traversal of	Preconditions: <ul style="list-style-type: none">Test 2 has passed. Steps: <ul style="list-style-type: none">User selects the option "print level-order traversal"	Program outputs: GOAL Description0 O 0.53 4 33000 Description1 A .559 10 30799	

<p>the attack tree)</p>	<ul style="list-style-type: none"> When prompted for which tree to print the traversal of, choose "Log File Tree" 	<p> Description2 O .01449 9.352 177000 Description3 O .01419 10 344000 Description9 O .01576 9.983 420000 Description16 O 0.47 5 55000 Description24 O 0.13 2 2000 Description25 A 0.17 2 59000 Description4 A 0.38 9 4000 Description5 A 0.77 1 32000 Description6 A 0.94 0 41000 Description7 A 0.31 1 41000 Description8 A 0.95 0 61000 Description10 A 0.26 5 68000 Description11 A 0.94 4 56000 Description12 A 0.65 10 27000 Description13 A 0.47 8 71000 Description14 A 0.2 1 61000 Description15 A 0.73 1 64000 Description17 A 0.24 4 20000 Description18 A 0.26 2 6000 Description19 A 0.89 9 97000 Description20 A 0.82 5 90000 Description21 A 0.6 8 49000 Description22 A 0.79 6 94000 Description23 </p>	
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retrieveLogEntries (BV - look up a date on the boundary)	Preconditions: <ul style="list-style-type: none"> LogFile.txt has be loaded and tree has been constructed Steps: <ul style="list-style-type: none"> User is prompted for what to do and enters "Retrieve log entries" User then is prompted for date and user enters "02-15-2017" 	Program outputs: 02-01-2017 12:15:05, jtking2, view records	
retrieveLogEntries (DT - look up a log that does not exist)	Preconditions: <ul style="list-style-type: none"> LogFile.txt has be loaded and tree has been constructed Steps: <ul style="list-style-type: none"> User is prompted for what to do and enters "Retrieve log entries" User then is prompted for date and user enters "02-15-2016" 	Program outputs" "Log not found" and reprompts the user.	
exitProgram (ECP - exits the program)	Preconditions: <ul style="list-style-type: none"> Program is running Steps: <ul style="list-style-type: none"> User chooses the option to exit the program 	Program exits	

Test Files

sample-preorder.txt

GOAL Description0

O 0.53 4 33000 Description1

A Description2

O Description3

A 0.17 2 59000 Description4

A 0.38 9 4000 Description5

A 0.77 1 32000 Description6

A 0.94 0 41000 Description7

A 0.31 1 41000 Description8

O Description9

A 0.95 0 61000 Description10

A 0.26 5 68000 Description11
A 0.94 4 56000 Description12
A 0.65 10 27000 Description13
A 0.47 8 71000 Description14
A 0.2 1 61000 Description15
O Description16
A 0.73 1 64000 Description17
A 0.24 4 20000 Description18
A 0.26 2 6000 Description19
A 0.89 9 97000 Description20
A 0.82 5 90000 Description21
A 0.6 8 49000 Description22
A 0.79 6 94000 Description23
O 0.47 5 55000 Description24
O 0.13 2 2000 Description25

sample-postorder.txt

O 0.53 4 33000.0 Description1
A 0.17 2 59000.0 Description4
A 0.38 9 4000.0 Description5
A 0.77 1 32000.0 Description6
A 0.94 0 41000.0 Description7
A 0.31 1 41000.0 Description8
O Description3
A 0.95 0 61000.0 Description10
A 0.26 5 68000.0 Description11
A 0.94 4 56000.0 Description12
A 0.65 10 27000.0 Description13
A 0.47 8 71000.0 Description14
A 0.2 1 61000.0 Description15
O Description9
A 0.73 1 64000.0 Description17
A 0.24 4 20000.0 Description18
A 0.26 2 6000.0 Description19
A 0.89 9 97000.0 Description20
A 0.82 5 90000.0 Description21
A 0.6 8 49000.0 Description22
A 0.79 6 94000.0 Description23
O Description16
O 0.47 5 55000.0 Description24
O 0.13 2 2000.0 Description25
A Description2

GOAL Description0

LogFile.txt

02-12-2017 12:15:05, jtking1, view records

02-01-2017 12:15:05, jtking2, view records

02-15-2017 12:15:05, jtking3, view records