

Specification User can see the probability of disruption given other disruptions

Test Case ID	Cases	Expected Result	Actual Result
Q.101 (Q1 in paper).	User want to see the conditional probability of disruption given other disruptions by input the name of disruption that has been determined before	Program give appropriate probability based on rule	Passed
Q.102 (Q1 in paper).	User want to see the probability of disruption without giving the conditional disruption by input the name of disruption that has not determined before	Program give correct probability based on rule	Passed
Q.103 (Q1 in paper).	User want to see the conditional probability of disruption given other disruption by input the name of disruption that has been determined before	Program give probability of disruption = 0	Passed
Q.104 (Q1 in paper).	User want to see the probability of disruption without giving the conditional disruption by input the name of disruption that has not determined before	Program give probability of disruption = 0	Passed

Specification User can see the disruption path from a conditional probability that given

Test Case ID	Cases	Expected Result	Actual Result
Q.201 (Q2 in paper).	User want to see the path of conditional probability by input the name of disruption that has been determined before	Program give appropriate path and probability	Passed
Q.202 (Q2 in paper).	User want to see the path of conditional probability by input the name of disruption that has not determined before	Program give no path and probability = 0	Passed

Specification User can find the number of disruption children and list of disruptions children

Test Cases ID	Cases	Expected Result	Actual Result
Q.301	User input disruption name that has been determined before	Program give appropriate number of disruption children	Passed
Q.302	User input disruption name that has not determined before	Program give appropriate number of disruption children	Passed

Specification User can find the number of disruption parent and list of disruptions parent

Test Cases ID	Cases	Expected Result	Actual Result
Q.401	User input disruption name that has been determined before	Program give appropriate number of disruption parent	Passed
Q.401	User input disruption name that has not determined before	Program give appropriate number of disruption parent	Passed

Specification User can see the list of disruption that categorize as safety criticalness disruption

Test Cases ID	Cases	Expected Result	Actual Result
Q.501	User choose safety criticalness menu	Program give appropriate list of disruption that categorize as safety criticalness disruption	Passed

Specification User can see the list of disruption that categorize as mission criticalness disruption

Test Cases ID	Cases	Expected Result	Actual Result
Q.601	User choose mission criticalness menu	Program give appropriate list of disruption that categorize as mission criticalness disruption	Passed

Specification User can see the list of disruption that categorize as need immediate action disruption

Test Cases ID	Cases	Expected Result	Actual Result
Q.701	User choose need immediate action menu	Program give appropriate list of disruption that categorize as need immediate action disruption	Passed

Specification User can see the path from a disruption to other disruption that contains certain disruption

Test Cases ID	Cases	Expected Result	Actual Result
---------------	-------	-----------------	---------------

Q.801 (Q3 in paper).	user input the source, destination, and contain disruption that has determined before	Program give appropriate list of disruption path	Passed
Q.802 (Q3 in paper).	user input the source, destination, and contain disruption that has not determined before	Program give no path of disruption	Passed

Specificaation User can see the path from a disruption to other disruption that not contains certain disruption

Test Cases ID	Cases	Expected Result	Actual Result
Q.901	user input the source, destination, and the not contain disruption that has determined before	Program give appropriate list of disruption path	Passed
Q.902	user input the source, destination, and the not contain disruption that has not determined before	Program give no path of disruption	Passed

Specification User can see list of disruption that not lead to any other disruptions

Test Cases ID	Cases	Expected Result	Actual Result
Q.1001	user choose not lead to any othe disruptions menu	Program give appropriate list of disruptions that not lead to any other disruptions	Passed

Specification User can see the list of common triggered disruptions by two other disruptions

Test Cases ID	Cases	Expected Result	Actual Result
Q.1101 (Q4 in paper).	User input two disruption name that has determined before	Program give appropriate disruption list	Passed
Q.1102 (Q4 in paper).	User input two disruption name that has not determined before	Program give list with no disruption	Passed

Specification User can see the list of common triggering disruption that lead to other disruption

Test Cases ID	Cases	Expected Result	Actual Result
Q.1201 (Q5 in paper).	User input two disruption name that has determined before	Program give appropriate disruption list	Passed
Q.1202 (Q5 in paper).	User input two disruption name that has not determined before	Program give list with no disruption	Passed

Specification User can see the most triggering disruption in train system

Test Cases ID	Cases	Expected Result	Actual Result
Q.1301 (Q6 in paper).	User choose the most triggering disruption	Program give appropriate the most triggering disruption	Passed

Specification User can see the most triggered disruption in train system

Test Cases ID	Cases	Expected Result	Actual Result
Q.1401 (Q7 in paper).	User choose the most triggered disruption	Program give appropriate the most triggered disruption	Passed