

Whitebox testing for function getBestRoute()

Returns the value of res

Function: getBestRoute	<u>Description</u>	<u>Test Data</u>	<u>Expected result</u>
Test1	Test to see what the value of res would be if routes[i].numPoints is less than routes[res].numPoints	i = 1 routes[i].numPoints = 4 routes[res].numPoints = 7	Return 1
Test2	Test to see what the value of res would be if routes[i].numPoints is greater than routes[res].numPoints	i = 3 routes[i].numPoints = 8 routes[res].numPoints = 5	Return 0
Test3	Test to see what the value of res would be if routes[i].numPoints is equal to routes[res].numPoints	i = 1 routes[i].numPoints = 4 routes[res].numPoints = 4	Return 0
Test4	Test to see what the value of res would be if routes[i].numPoints is equal to NULL	i = 1 routes[i].numPoints = NULL routes[res].numPoints = 4	Return 0
Test5	Test to see what the value of res would be if routes[res].numPoints is equal to NULL	i = 1 routes[i].numPoints = 4 routes[res].numPoints = NULL	Return 0
Test6	Test to see what the value of res would be if routes[i].numPoints is equal to zero	i = 2 routes[i].numPoints = 0 routes[res].numPoints = 4	Return 2
Test7	Test to see what the value of res would be if routes[res].numPoints is equal to zero	i = 1 routes[i].numPoints = 4 routes[res].numPoints = 0	Return 0