# Test Description

**Test Name or ID**: Testing for correct output for shortest route

**Test Type**: White box

**Description**: Function calculates the shortest possible route between start and dest parameter.

**Setup:**

1. Linking the function calculateShortestRoute to unit test and use assert (AreEqual) for testing. If the expected result matches the actual results, test case pass.As this function receive 3 structs and returning 1 struct, it is not easy to test with assert function in unit test.
2. Another easier approach to test this function would be printing the received structs parameter and the return struct to the console and compare with the expected results.

**Test Function**: struct Route calculateRoute(**const struct Map\* map, const struct Point start, const struct Point dest**)

**Test Scenarios:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description | Test Data | Expected Result | Actual Result | Pass/Fail |
| Validation for return value of the shortest route calculation | (TBC) | (TBC) | (TBC) | (TBC) |
| (TBC) | (TBC) | (TBC) | (TBC) |
| (TBC) | (TBC) | (TBC) | (TBC) |
| (TBC) | (TBC) | (TBC) | (TBC) |
|  |  |  |  |  |
|  |  |  |  |  |
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**Bugs Found**:

As the function is half-implemented, no bugs found in current stage.