| **Test** | **Test Data** | **Expected Result** | **Description** |
| --- | --- | --- | --- |
| TestAddRouteIntegration | populateMap() and getBlueRoute() | mapWithRoute.squares should contain blue route markers | This test integrates the populateMap() and getBlueRoute() functions to ensure that the blue route is correctly added to the map. |
| TestShortestPathIntegration | populateMap(), start {0, 0}, dest {5, 5} | shortest.numPoints should be 5 and specific points are correct | This test integrates the populateMap() and shortestPath() functions to calculate the shortest path from start to dest and verify its correctness. |
| TestGetPossibleMovesIntegration | populateMap(), p1 {0, 0}, backpath {0, 1} | possibleMoves.numPoints should be 2 and specific points are correct | This test integrates the populateMap() and getPossibleMoves() functions to get possible moves from p1 while excluding backpath and verify its correctness. |

Integration Testing: