Black Box Testing:

| Test | Data | Expected Result | Description |
| --- | --- | --- | --- |
| TestGetPossibleMoves1 | Populated map, p1 (0, 0), backpath (0, 1) | 2 possible moves, one to the right of (0, 0) | Calculate possible moves from (0, 0) considering the given backpath and assert the correct number and direction. |
| TestGetPossibleMoves2 | Populated map, p2 (5, 5), backpath (6, 5) | 3 possible moves in top, left, and bottom directions | Calculate possible moves from (5, 5) considering the given backpath and assert the correct number and directions. |
| TestGetPossibleMoves3 | Populated map, p3 (10, 10), backpath (9, 10) | 3 possible moves in top, right, and bottom directions | Calculate possible moves from (10, 10) considering the given backpath and assert the correct number and directions. |
| TestGetPossibleMoves4 | Populated map, p4 (0, 0), backpath (1, 0) | 1 possible move downwards from (0, 0) | Calculate possible moves from (0, 0) considering the given backpath and assert the correct number and direction. |
| TestGetPossibleMoves5 | Populated map, p5 (19, 19), backpath (18, 19) | 1 possible move upwards from (19, 19) | Calculate possible moves from (19, 19) considering the given backpath and assert the correct number and direction. |