# Test Description

**Test Name or ID**: convertStrToPoint – BlackBoxTest

**Test Type**: Black box

**Description**: The purpose of this test is to verify the functionality and expected results of the convertStrToPoint function. The function is tested with various input scenarios to ensure it correctly converts a given string representation into a Point structure. The test cases cover general cases as well as edge cases, including different valid input strings with varying row and col values. By comparing the actual output with the expected output, we can determine if the function accurately converts the input string to the corresponding Point structure with the correct row and col values. This test aims to validate the correctness of the implementation and ensure the function behaves as intended across different input scenarios.

**Setup:** Provide the following parameters

|  |  |  |
| --- | --- | --- |
| Parameter | Member Variables | Description |
| const char\* dest | char row | It represents the row value converted from the input string. |
| char col | It represents the column value converted from the input string. |

**Test Function**: convertStrToPoint()

**Test Scenarios:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description | Test Data | Expected Result | Actual Result | Pass/Fail |
| General Case | "B3" | Point {row = 1, col = 3} |  |  |
| Minimum Input Range | "A1" | Point {row = 0, col = 0} |  |  |
| Maximum Input Range | "Z9" | Point {row = 25, col = 8} |  |  |
| Row Edge Case | "Z6" | Point {row = 25, col = 5} |  |  |
| Col Edge Case | "M26" | Point {row = 12, col = 26} |  |  |
| Zero Row and Col | "A1" | Point {row = 0, col = 0} |  |  |

**Bugs Found**: