# Test Description

**Test Name or ID**: BB\_TestValidate

**Test Type**: Black box

**Description**: To ensure the function returns the valid entry whether it is the weight, volume or destination contained in struct Point

**Setup:** 1. Recognize the constraints and requirements of the validate function.

2. testing both valid and invalid test cases

3. Comparing the actual results to the predicted results.

**Test Function**: validate

**Test Scenarios:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description | Test Data | Expected Result | Actual Result | Pass/Fail |
| Entering a valid input | Weight = 500, volume =0.5, Point p1={3,2} | 0 (indicating valid output) |  |  |
| Entering invalid weight | Weight = 0, volume = 0.5, Point p1={3,4} | INVALID\_WEIGHT |  |  |
| Entering invalid volume | Weight = 10, volume =0.26, Point p1={7,5} | INVALID\_VOLUME |  |  |
| Entering invalid point (column) | Weight = 10, volume =0.5, Point p1={6,42} | INVALID\_POINT |  |  |
| Entering invalid point(row) | Weight = 10, volume =0.5, Point p1={46,2} | INVALID\_POINT |  |  |
| Entering all invalid inputs | Weight = 1500, volume =1.5, Point p1={-1,-1} | Not 0 (indicates unsuccessful validation) |  |  |
|  |  |  |  |  |

**Bugs Found**:

Description of each bug found above and how to reproduce it.