# Test Description

**Test Name or ID**: T017

**Test Type**: Acceptance

**Description**: This document outlines the acceptance tests for the package delivery system. The tests cover various scenarios including invalid inputs for destination, package size, and weight, as well as valid inputs for normal operation and multiple valid inputs.

**Setup:** 1. Include necessary header files.

2. Initialize data structures for packages, trucks, and routes.

3. Populate routes and map

**Test Function**: name of the test function associated with this description.

**Test Scenarios: AcceptanceTester**

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| --- | --- | --- | --- | --- |
| Description | Test Data | Expected Result | Actual Result | Pass/Fail |
| Invalid destination input test | Weight: 20, Size: 5, Destination: 28x | Error: Invalid destination | Error: Invalid destination | Pass |
| Invalid package size input test | Weight: 20, Size: 4, Destination: 12L | Error: Invalid size | Error: Invalid size | Pass |
| Invalid package weight input test | Weight: 2600, Size: 5, Destination: 12L | Error: Invalid weight | Error: Invalid weight | Pass |
| Valid package and destination input | Weight: 20, Size: 5, Destination: 12L | Ship on BLUE LINE, no diversion | Ship on BLUE LINE, no diversion | Pass |
| Multiple valid inputs (1) | Weight: 1000, Size: 1, Destination: 8Y | Ship on GREEN LINE, divert: 7T, 7U, 7V, 7W, 7X, 8Y | Ship on GREEN LINE, divert: 7T, 7U, 7V, 7W, 7X, 8Y | Pass |
| Multiple valid inputs (2) | Weight: 1000, Size: 1, Destination: 8Y | Ship on GREEN LINE, divert: 7T, 7U, 7V, 7W, 7X, 8Y | Ship on GREEN LINE, divert: 7T, 7U, 7V, 7W, 7X, 8Y | Pass |
| Multiple valid inputs (3) | Weight: 1000, Size: 1, Destination: 8Y | Ship on BLUE LINE, divert: 18V, 17V, 16V, 15V, 14V, 13V, 12V, 11V, 10V, 9V, 8V, 7V, 7W, 7X, 7Y, 8Y | Ship on BLUE LINE, divert: 18V, 17V, 16V, 15V, 14V, 13V, 12V, 11V, 10V, 9V, 8V, 7V, 7W, 7X, 7Y, 8Y | Pass |
| Normal termination test | Weight: 0, Size: 0, Destination: x | Thanks for shipping with Seneca Polytechnic! | Thanks for shipping with Seneca Polytechnic! | Pass |

**Bugs Found**:

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