**Category/Partition**

1. There are three parameters :

* smallSize = 1 kg
* largeSize = 5 kg
* total

1. For each parameter we define the characteristics as :

* smallSize can be a positive number or zero.
* largeSize can be a positive number or zero.
* total can be a positive number.

1. Exception : -> total can be zero but can’t pack.

* smallSize can’t be a nagative number and must be greater than total.
* largeSize can’t be a nagative number.
* total can’t be a nagative number.

1. Combine the characteristics to form test cases :

* Positive number at box size
* Positive number at total .
* Zero at box size.
* Zero at total
* Negative number at box size.
* Negative number at total.

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| **Test Case Design and Test Results** | | | | | | | | | | | | | |
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| **Project Name:** | ShippingPackage | | | | | | | **Project ID:** | |  | | | |
| **Test Strategy:** | Category-partition method | | | | | | | **Designer:** | | Chorpathum Udomchart | | | |
| **Test Environment:** | |  | | | | | | | | | | | |
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| **Test Case ID** | **Input** | | | **Expected Result** | | | | | **Actual Result** | | | **Status (Pass/Fail/No run)** |
| smallSize | largeSize | total |
| TC01 | 1 | 1 | 1 | ไม่สามารถหาวิธีบรรจุได้ | | | | | 1 กล่อง | | | Fail |
| TC02 | 1 | 1 | 5 | ไม่สามารถหาวิธีบรรจุได้ | | | | | 0 กล่อง | | | Fail |
| TC03 | 1 | 1 | 6 | กล่องเล็ก 1 กล่อง กล่องใหญ่ 1 กล่อง | | | | | 1 กล่อง | | | Fail |
| TC04 | 1 | 1 | 7 | กล่องเล็ก 1 กล่อง กล่องใหญ่ 1 กล่อง | | | | | -1 | | | Fail |
| TC05 | 0 | 1 | 1 | กล่องใหญ่ 1 กล่อง | | | | | -1 | | | Fail |
| TC06 | 1 | 0 | 5 | กล่องเล็ก 1 กล่อง | | | | | -1 | | | Fail |
| TC07 | 1 | 1 | 0 | ไม่สามารถหาวิธีบรรจุได้ | | | | | 0 กล่อง | | | Fail |
| TC08 | 4 | 0 | 4 | กล่องเล็ก 4 กล่อง | | | | | 4 กล่อง | | | Pass |
| TC09 | -1 | 1 | 1 | ไม่สามารถหาวิธีบรรจุได้ | | | | | -1 | | | Pass |
| **Test Case ID** | **Input** | | | **Expected Result** | | | | | **Actual Result** | | | **Status (Pass/Fail/No run)** |
| smallSize | largeSize | total |
| TC10 | 1 | -1 | 5 | ไม่สามารถหาวิธีบรรจุได้ | | | | | -1 | | | Pass |
| TC11 | 1 | 1 | -6 | ไม่สามารถหาวิธีบรรจุได้ | | | | | -1 | | | Pass |
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| **Test Case ID** | **Input** | | | **Expected Result** | **Actual Result** | **Status (Pass/Fail/No run)** |
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| **Scenario ID** | **Scenario Name** | **Test Case#** | **Pass** | **Fail** | **No run** | **Block** | **Remark** | **Defect ID** |
| EC-Lab5-02 | ShippingPackage |  |  |  |  |  |  |  |
| **รวม** | |  |  |  |  |  |  |  |