**Category/Partition**

1. จำนวนรถบรรทุก (truck) เป็นศูนย์
2. จำนวนรถบรรทุก (truck) เป็นจำนวนเต็มบวก
3. จำนวนรถบรรทุก (truck) เป็นจำนวนติดลบ (Invalid)
4. จำนวนรถตู้ (van) เป็นศูนย์
5. จำนวนรถตู้ (van) เป็นจำนวนเต็มบวก
6. จำนวนรถตู้ (van) เป็นจำนวนติดลบ (Invalid)
7. จำนวนจักรยานยนต์ (motorcycle) เป็นศูนย์
8. จำนวนจักรยานยนต์ (motorcycle) เป็นจำนวนเต็มบวก
9. จำนวนจักรยานยนต์ (motorcycle) เป็นจำนวนติดลบ (Invalid)
10. รถทุกประเภทเป็นศูนย์ (กรณีไม่มีรถขนส่งเลย)
11. รถหลายประเภทมีจำนวนรวมกันเกินขอบเขตที่ระบบรับได้ (เช่น overflow)

12. combination ที่รถบางคันติดลบ บางคันเป็นศูนย์/บวก

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Case Design and Test Results** | | | | | | | | | | | | | |
|  |  | | | |  |  |  |  | |  |  | | |
| **Project Name:** | Shipping Problem | | | | | | | **Project ID:** | | 1.00 | | | |
| **Test Strategy:** | Category-partition method | | | | | | | **Designer:** | | เกรียงไกร ประเสริฐ 663380616-4 | | | |
| **Test Environment:** | | **Eclipse,Junit5** | | | | | | | | | | | |
|  |  | | | |  |  |  |  | |  |  | | |
| **Test Case ID** | **Input** | | | **Expected Result** | | | | | **Actual Result** | | | **Status (Pass/Fail/No run)** |
| truck | van | motorcycle |
| **TC01** | **-1** | **-1** | **-1** | **-1** | | | | | **-1,-1,-2** | | | **Fail** |
| **TC02** | **5** | **0** | **0** | **5,0,0** | | | | | **0,-1** | | | **Fail** |
| **TC03** | **0** | **2** | **0** | **0,2,0** | | | | | **0,-1** | | | **Fail** |
| **TC04** | **2** | **1** | **0** | **2,1,0** | | | | | **0,-1** | | | **Fail** |
| **TC05** | **3** | **0** | **0** | **3,0,0** | | | | | **0,-1** | | | **Fail** |
| **TC06** | **1** | **1** | **1** | **1,1,1** | | | | | **1,-1** | | | **Fail** |
| **TC07** | **0** | **0** | **0** | **0,0,0** | | | | | **0,0,0** | | | **Pass** |
| **TC08** | **500** | **0** | **0** | **-1** | | | | | **-1** | | | **Pass** |
| **TC09** | **499** | **0** | **0** | **499,0,0** | | | | | **0,-1** | | | **Fail** |
| **Test Case ID** | **Input** | | | **Expected Result** | | | | | **Actual Result** | | | **Status (Pass/Fail/No run)** |
| truck | van | motorcycle |
| **TC10** | **0** | **200** | **0** | **-1** | | | | | **-1** | | | **Pass** |
| **TC11** | **0** | **199** | **0** | **0,199,0** | | | | | **0,-1** | | | **Fail** |
| **TC12** | **0** | **0** | **101** | **-1** | | | | | **-1** | | | **Pass** |
| **TC13** | **0** | **0** | **100** | **0,0,100** | | | | | **-1** | | | **Fail** |
| **TC14** | **10** | **10** | **10** | **10,10,10** | | | | | **10,-1** | | | **Fail** |
| **TC15** | **1** | **1** | **1** | **1,1,1** | | | | | **1,-1** | | | **Fail** |
| **TC16** | **50** | **100** | **50** | **-1** | | | | | **-1** | | | **Pass** |
| **TC17** | **100** | **100** | **100** | **-1** | | | | | **-1** | | | **Pass** |
| **TC18** | **1** | **0** | **0** | **1,0,0** | | | | | **0,-1** | | | **Fail** |
| **TC19** | **0** | **1** | **0** | **0,1,0** | | | | | **0,-1** | | | **Fail** |
| **TC20** | **0** | **0** | **1** | **0,0,1** | | | | | **1,0,0** | | | **Fail** |
| **TC21** | **1** | **1** | **100** | **-1** | | | | | **-1** | | | **Pass** |
| **TC22** | **1** | **100** | **1** | **-1** | | | | | **1,-1** | | | **Fail** |
| **TC23** | **100** | **1** | **1** | **-1** | | | | | **1,-1** | | | **Fail** |
| **TC24** | **100** | **50** | **50** | **50,50,0** | | | | | **50,-1** | | | **Fail** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Input** | | | **Expected Result** | **Actual Result** | **Status (Pass/Fail/No run)** |
| truck | van | motorcycle |
| **TC25** | **-1** | **0** | **0** | **-1** | **0,0,-2** | **Fail** |
| **TC26** | **0** | **-1** | **0** | **-1** | **0,-1,0** | **Fail** |
| **TC27** | **0** | **0** | **-1** | **-1** | **-1,0,0** | **Fail** |
| **TC28** | **400** | **200** | **200** | **-1** | **-1** | **Pass** |
| **TC29** | **-1** | **0** | **1** | **-1** | **0,-1** | **Fail** |
| **TC30** | **0** | **-1** | **1** | **-1** | **0,-1** | **Fail** |
| **TC31** | **1** | **0** | **-1** | **-1** | **-1,-1** | **Fail** |
| **TC32** | **0** | **1** | **-1** | **-1** | **-1,-1** | **Fail** |
| **TC33** | **-5** | **10** | **0** | **-1** | **0,-1** | **Fail** |
| **TC34** | **10** | **-5** | **0** | **-1** | **0,-5,-1** | **Fail** |
| **TC35** | **0** | **10** | **-5** | **-1** | **-5,-1** | **Fail** |
| **TC36** | **-2** | **0** | **0** | **-1** | **0,0,-4** | **Fail** |
| **TC37** | **0** | **-2** | **0** | **-1** | **-1,-1** | **Fail** |
| **TC38** | **0** | **0** | **-2** | **-1** | **-2,0,0** | **Fail** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Scenario ID** | **Scenario Name** | **Test Case#** | **Pass** | **Fail** | **No run** | **Block** | **Remark** | **Defect ID** |
| EC-Lab5-02 | Shipping Problem | 38 | 8 | 30 |  |  |  | DF01-DF30 |
| **รวม** | | 38 | 8 | 30 |  |  |  |  |