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| **Equivalence Class Design** | | | | | | | | | | | | | |
| **Valid EC** |  | | |  |  |  | | | **Invalid EC** | |  | |  |
| **EC ID** | **Condition** | | | | | |  | | **EC ID** | **Condition** | | | |
| EC01 | Lock = | | | | | |  | | EC01 | Lock = | | | |
| EC02 | Lock = | | | | | |  | | EC02 | Lock = | | | |
| EC03 | Stock = | | | | | |  | | EC03 | Stock = | | | |
| EC04 | Stock = | | | | | |  | | EC04 | Stock = | | | |
| EC05 | Barrel = | | | | | |  | | EC05 | Barrel = | | | |
| EC06 | Barrel = | | | | | |  | | EC06 | Barrel = | | | |
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| **Test Case Design and Test Results** | | | | | | | | | | | | | | |
| **Project Name:** | | Commission Program | | | | | | **Project ID:** | | | |  | | |
| **Test Strategy:** | | Strong Robust Equivalence Class Testing | | | | | | **Designer:** | | | | Chorpathum Udomchart | | |
| **Test Environment:** | | | **JUnit5** | | | | | | | | | | | |

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| **Test Case ID** | **Input** | | | | **Expected Result** | | | | | | **Actual Result** | | | | **Status (Pass/Fail/No run)** | |
| Lock | Stock | Barrel | |
| TC01 | -1 | -1 | -1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC02 | -1 | -1 | 1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC03 | -1 | -1 | 45 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC04 | -1 | -1 | 91 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC05 | -1 | 1 | -1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC06 | -1 | 1 | 1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC07 | -1 | 1 | 45 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC08 | -1 | 1 | 91 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC09 | -1 | 40 | -1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| **Test Case ID** | **Input** | | | | **Expected Result** | | | | | | **Actual Result** | | | | **Status (Pass/Fail/No run)** | |
| Lock | Stock | Barrel | |
| TC10 | -1 | 40 | 1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC11 | -1 | 40 | 45 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC12 | -1 | 40 | 91 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC13 | -1 | 81 | -1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC14 | -1 | 81 | 1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC15 | -1 | 81 | 45 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC16 | -1 | 81 | 91 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC17 | 1 | -1 | -1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC18 | 1 | -1 | 1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC19 | 1 | -1 | 45 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC20 | 1 | -1 | 91 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC21 | 1 | 1 | -1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC22 | 1 | 1 | 1 | | 1000 | | | | | | 0 | | | | Fail | |
| TC23 | 1 | 1 | 45 | | 20500 | | | | | | 20500 | | | | Pass | |
| TC24 | 1 | 1 | 91 | | 43500 | | | | | | 43500 | | | | Pass | |
| **Test Case ID** | **Input** | | | | | **Expected Result** | | | | | | **Actual Result** | | | | **Status (Pass/Fail/No run)** | |
| Lock | Stock | | Barrel | |
| TC25 | 1 | 40 | | -1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC26 | 1 | 40 | | 1 | | 21900 | | | | | | 33600 | | | | Fail | |
| TC27 | 1 | 40 | | 45 | | 43900 | | | | | | 55600 | | | | Fail | |
| TC28 | 1 | 40 | | 91 | | 66900 | | | | | | 78600 | | | | Fail | |
| TC29 | 1 | 81 | | -1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC30 | 1 | 81 | | 1 | | 46500 | | | | | | 70500 | | | | Fail | |
| TC31 | 1 | 81 | | 45 | | 68500 | | | | | | 92500 | | | | Fail | |
| TC32 | 1 | 81 | | 91 | | 91500 | | | | | | 115500 | | | | Fail | |
| TC33 | 35 | -1 | | -1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC34 | 35 | -1 | | 1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC35 | 35 | -1 | | 45 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC36 | 35 | -1 | | 91 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC37 | 35 | 1 | | -1 | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC38 | 35 | 1 | | 1 | | 29100 | | | | | | 18900 | | | | Fail | |
| TC39 | 35 | 1 | | 45 | | 51100 | | | | | | 40900 | | | | Fail | |
| **Test Case ID** | **Input** | | | | | **Expected Result** | | | | | | **Actual Result** | | | | **Status (Pass/Fail/No run)** | |
| Lock | Stock | Barrel | | |
| TC40 | 35 | 1 | 91 | | | 74100 | | | | | | 63900 | | | | Fail | |
| TC41 | 35 | 40 | -1 | | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC42 | 35 | 40 | 1 | | | 52500 | | | | | | 54000 | | | | Fail | |
| TC43 | 35 | 40 | 45 | | | 74500 | | | | | | 76000 | | | | Fail | |
| TC44 | 35 | 40 | 91 | | | 97500 | | | | | | 99000 | | | | Fail | |
| TC45 | 35 | 81 | -1 | | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC46 | 35 | 81 | 1 | | | 77100 | | | | | | 90900 | | | | Fail | |
| TC47 | 35 | 81 | 45 | | | 99100 | | | | | | 112900 | | | | Fail | |
| TC48 | 35 | 81 | 91 | | | 122100 | | | | | | 135900 | | | | Fail | |
| TC49 | 71 | -1 | -1 | | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC50 | 71 | -1 | 1 | | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC51 | 71 | -1 | 45 | | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC52 | 71 | -1 | 91 | | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC53 | 71 | 1 | -1 | | | ไม่สามารถคำนวณได้ | | | | | | -1 | | | | Fail | |
| TC54 | 71 | 1 | 1 | | | 61500 | | | | | | 40500 | | | | Fail | |

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| **Test Case ID** | **Input** | | | **Expected Result** | **Actual Result** | **Status (Pass/Fail/No run)** |
| Lock | Stock | Barrel |
| TC55 | 71 | 1 | 45 | 83500 | 62500 | Fail |
| TC56 | 71 | 1 | 91 | 106500 | 85500 | Fail |
| TC57 | 71 | 40 | -1 | ไม่สามารถคำนวณได้ | -1 | Fail |
| TC58 | 71 | 40 | 1 | 84900 | 75600 | Fail |
| TC59 | 71 | 40 | 45 | 106900 | 97600 | Fail |
| TC60 | 71 | 40 | 91 | 129900 | 120600 | Fail |
| TC61 | 71 | 81 | -1 | ไม่สามารถคำนวณได้ | -1 | Fail |
| TC62 | 71 | 81 | 1 | 109500 | 112500 | Fail |
| TC63 | 71 | 81 | 45 | 131500 | 134500 | Fail |
| TC64 | 71 | 81 | 91 | 154500 | 157500 | Fail |
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| **Scenario ID** | **Scenario Name** | **Test Case#** | **Pass** | **Fail** | **No run** | **Block** | **Remark** | **Defect ID** |
| EC-Lab5-01 | Commission Program | 64 | 2 | 62 | 0 | 0 |  |  |
| **รวม** | | 64 | 2 | 62 | 0 | 0 |  |  |