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**FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING**

**BCS3323**

**SOFTWARE TESTING & MAINTENANCE**

Labsheet 3

Prepared By:

|  |  |
| --- | --- |
| **Name** | **ID** |
| Nabila Zainal | CB14036 |
| Tengku Nazihah Binti Ungku Setea | CB14054 |
| Razanalia Erma Binti Razali | CB14055 |

**Lecturer Name :**

Dr. AbdulRahman Ahmed

Range for A

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Lower invalid | Valid | | Upper invalid | | 10 | 11 | 50 | 51 |   Boundary value : {10, 11, 50, 51}  Equivalent partition : {7,12,58}  A : {10, 11, 50, 51, 7, 12, 58} |

Range for B

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Lower invalid | Valid | | Upper invalid | | -1 | 0 | 37 | 38 |   Boundary value : {-1, 0, 38, 39}  Equivalent partition : {-3,27,40}  B : {-1, 0, 38, 39, -3, 27, 40} |

Range for C

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Lower invalid | Valid | | Upper invalid | | -1 | 0 | 100 | 101 |   Boundary value : {-1, 0, 100, 101}  Equivalent partition : {-5, 50, 150}  C : {-1, 0, 100, 101, -5, 50, 150} |

b) Test cases

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Requirement ID** | **Test Condition** | **Test Cases ID** | **Input** | | | **Expected result** | **Actual result** | **Test Status** |
| **a** | **b** | **c** |
| F001-REQ | Scalene  Invalid  values | T001 | 7 | -3 | -5 | Impossible | Impossible triangle | PASS |
| F002-REQ | Scalene  Invalid  values | T002 | -5 | -5 | 101 | Isosceles | Impossible triangle | FAIL |
| F003-REQ | Scalene  Invalid  values | T003 | 7 | 40 | -8 | Scalene | Impossible triangle | FAIL |
| F004-REQ | Scalene  Invalid  values | T004 | 23 | 15 | -5 | Scalene | Impossible triangle | FAIL |
| F005-REQ | Scalene  Invalid  values | T005 | 68 | 47 | 105 | Scalene | Any triangle | FAIL |
| F006-REQ | Scalene  Invalid  values | T006 | 70 | -17 | -10 | Scalene | Impossible triangle | FAIL |
| F007-REQ | Scalene  Invalid  values | T007 | 2 | 40 | -40 | Scalene | Impossible triangle | FAIL |
| F008-REQ | Scalene  Valid  values | T008 | 10 | 5 | 5 | Isosceles | Isosceles | PASS |
| F009-REQ | Scalene  Valid  values | T009 | 49 | 10 | 25 | Scalene | Impossible triangle | FAIL |
| F0010-REQ | Scalene  Valid  values | T010 | 12 | 25 | 9 | Scalene | Impossible triangle | FAIL |
| F0011-REQ | Scalene  Valid  values | T011 | 28 | 6 | 29 | Equilateral | Any triangle | FAIL |
| F0012-REQ | Isosceles Valid  values | T012 | 25 | 25 | 17 | Isosceles | Isosceles | PASS |
| F0013-REQ | Equilateral  Valid  values | T013 | 26 | 26 | 26 | Equilateral | Equilateral | PASS |
| F0014-REQ | Scalene  Valid  values | T014 | 10 | 38 | 17 | Scalene | Impossible triangle | FAIL |
| F0015-REQ | Scalene  Invalid  values | T015 | -15 | 40 | -5 | Scalene | Impossible triangle | FAIL |