**Equivalence Class**

The basic idea in equivalence class deriving is to separate input domain into logical intervals:

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| **Test Scenario #** | **Test Scenario Description** | **Expected Outcome** |
| 1 | Smaller than 0 | System must return with error message |
| 2 | Include 0 up to 22000 | System should accept with ratio of 0.15 |
| 3 | Include 22001 up to 49000 | System should accept with ratio of 0.2 |
| 4 | Include 49001 to up 120000 | System should accept with ratio of 0.27 |
| 5 | Include 12000 up to 600000 | System should accept with ratio of 0.35 |
| 6 | Over 600000 | System should accept with ratio of 0.4 |

Boundary Values & Analysis

**Analysis:Each equivalence partition is more likely to be incorrect at boundaries so boundaries ,one less and one more ;also 0, min,max,string and too large number are tested .**

1. Minimum
2. A nominal value
3. Maximum

|  |  |
| --- | --- |
| ****Test Scenario Description**** | ****Expected Outcome**** |
| Boundary Value = -654892 | “input value is less than zero !” with return 0 |
| Boundary Value = 0 | 0 |
| Boundary Value = 1000 | 150 |
| Boundary Value = 21999 | 3299.85 |
| Boundary Value = 22000 | 3300 |
| Boundary Value = 22001 | 3300.2 |
| Boundary Value = 35000 | 8700 |
| Boundary Value = 48999 | 8699.8 |
| Boundary Value = 49000 | 8700 |
| Boundary Value = 49001 | 8700.27 |
| Boundary Value = 100001 | 22470.27 |
| Boundary Value = 119999 | 27869.73 |
| Boundary Value = 120000 | 27870 |
| Boundary Value = 120001 | 27870.35 |
| Boundary Value =300002 | 90870.7 |
| Boundary Value = 599999 | 195869.65 |
| Boundary Value =600000 | 195870 |
| Boundary Value =600001 | 195870.4 |
| Boundary Value =1000000 | 355870 |
| Boundary Value = 1.7976931348623157E308 | 7.190772539449263E307 |
| Boundary Value =”abcd” | String cannot be converted double |
| Boundary Value =12345678910 | Integer number too large |

Serkan Koçoğlu

Best Regards..