1, Functional Test:

**StdCalc\_Test-Alex White**

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| --- | --- | --- | --- |
| Partition ID | Input variable | Valid partition | Invalid partition |
| 1 | input/i | i = real number |  |
| 2 | input/i |  | i != real number |

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Test inputs | Expected output | Partition ID covered |
| ValidAdd | 1,1 | 2, Valid | 1 |
| InvalidAdd | 1,1 | Invalid | 2 |
| ValidSub | 3,1 | 2, Valid | 1 |
| InvalidSub | 1,1 | Invalid | 2 |
| ValidDiv | 2,1 | 1, Valid | 1 |
| InvalidDiv | 4,1 | Invalid | 2 |
| ValidMulti | 2,1 | 2, Valid | 1 |
| InvalidMulti | 4,1 | Invalid | 2 |
| ValidAbs | -2 | 2, Valid | 1 |
| InvalidAbs | 3 | Invalid | 2 |

**Binary\_HexdecimalTest-Vu Pham**

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| --- | --- | --- | --- |
| Partition ID | Input variable | Valid partition | Invalid partition |
| 1 | input/i | i = decimal number |  |
| 2 | input/i |  | i != decimal number |
| 3 | input/i | i = binary number |  |
| 4 | input/i |  | i != binary number |
| 5 | input/i | i = hexadecimal number |  |
| 6 | input/i |  | i != hexadecimal number |

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Test inputs | Expected output | Partition ID covered |
| ValidBinAdd | 1,1 | 10, Valid | 3 |
| InvalidBinAdd | 1,2 | Invalid | 4 |
| ValidBinSub | 1,1 | 2, Valid | 3 |
| InvalidBinSub | 1,2 | Invalid | 4 |
| ValidHexAdd | 10,1 | b, Valid | 5 |
| InvalidHexAdd | h,1 | Invalid | 6 |
| ValidHexSub | f,1 | e, Valid | 5 |
| InvalidHexSub | h,1 | Invalid | 6 |
| ValidBin2Dec | 1 | 1, Valid | 3 |
| InvalidBin2Dec | 2 | Invalid | 4 |
| ValidDec2Bin | 9 | 1001, Valid | 1 |
| InvalidDec2Bin | a | Invalid | 2 |
| ValidHex2Dec | b | 11, Valid | 5 |
| InvalidHex2Dec | h | Invalid | 6 |
| ValidDec2Hex | 15 | f, Valid | 3 |
| InvalidDec2Hex | a | Invalid | 4 |
| ValidBin2Hex | 1 | 1, Valid | 1 |
| InvalidBin2Hex | 15 | Invalid | 2 |
| ValidHex2Bin | 9 | 1001, Valid | 5 |
| InvalidHex2Bin |  | Invalid | 6 |

**High\_MathTest-Faus Palting**

functional/structural testing

|  |  |  |  |
| --- | --- | --- | --- |
| Partition ID | Input Variable | Valid partition | Invalid partition |
| 1 | input/i | i = real number |  |
| 2 | input/i |  | i != real number |

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Test inputs | Expected output | Partition ID covered |
| testDSqrt | 4 | 2, Valid | 1 |
| invalidtestDSqrt | 4 | Invalid | 2 |
| testDPow | 2, 2 | 4, Valid | 1 |
| invalidtestDPow | 2,2 | Invalid | 2 |
| testDLoge | 1 | 0, Valid | 1 |
| invalidtestDLoge | 1 | Invalid | 2 |
| testDLog10 | 1 | 0, Valid | 1 |
| invalidDLog10 | 1 | Invalid | 2 |
| testDSqr | 2 | 4, Valid | 1 |
| invalidtestDSqr | 2 | Invalid | 2 |
| testDNrt | 4,2 | 2, Valid | 1 |
| invalidtestDNrt | 4,2 | Invalid | 2 |
| testDSin | 0 | 0, Valid | 1 |
| invalidtestDSin | 0 | Invalid | 2 |
| testDCos | 0 | 1, Valid | 1 |
| invalidtestDCos | 0 | Invalid | 2 |
| testDTan | 0 | 0, Valid | 1 |
| invalidtestDTan | 0 | Invalid | 2 |

2, Structural Test:

* Statement Adequacy for Structural Tests

