Input space partition

Each choice coverage

|  |  |  |
| --- | --- | --- |
| Side1 | Side2 | Side3 |
| 2 | 2 | 2 |
| 1 | 1 | 1 |
| 0 | 0 | 0 |
| -1 | -1 | -1 |

Pair-wise coverage

|  |  |  |
| --- | --- | --- |
| Side1 | Side2 | Side3 |
| 2 | 2 | 2 |
| 1 | 2 | 1 |
| 0 | 2 | 0 |
| -1 | 2 | -1 |
| 1 | 1 | 2 |
| 0 | 1 | 1 |
| -1 | 1 | 0 |
| 2 | 1 | -1 |
| 0 | 0 | 2 |
| -1 | 0 | 1 |
| 2 | 0 | 0 |
| 1 | 0 | -1 |
| -1 | -1 | 2 |
| 2 | -1 | 1 |
| 1 | -1 | 0 |
| 0 | -1 | -1 |

Graph coverage

Node coverage

|  |  |  |
| --- | --- | --- |
| Side1 | Side2 | Side3 |
| 0 | 1 | 2 |
| 3 | 3 | 3 |
| 1 | 2 | 3 |

Edge coverage

|  |  |  |
| --- | --- | --- |
| Side1 | Side2 | Side3 |
| 2 | 2 | 1 |
| 1 | 1 | 3 |
| -1 | 1 | 1 |
| 1 | 2 | 2 |
| 1 | 1 | 3 |
| 3 | 1 | 1 |
| 2 | 1 | 2 |
| 2 | 2 | 2 |
| 1 | 3 | 1 |

Prime path coverage

|  |  |  |
| --- | --- | --- |
| Side1 | Side2 | Side3 |
| -1 | 1 | 1 |
| 1 | 1 | 3 |
| 1 | 1 | 3 |
| 1 | 3 | 1 |
| 2 | 2 | 2 |

All-use path for triOut

|  |  |  |
| --- | --- | --- |
| Side1 | Side2 | Side3 |
| 3 | 2 | 2 |
| 2 | 3 | 2 |
| 2 | 2 | 3 |

For logic expression (a<b)^(c<=d\*d)

Predicate coverage

|  |  |  |  |
| --- | --- | --- | --- |
|  | Side 1 | Side 2 | Side 3 |
| Ture | 2 | 2 | 3 |
| False | 1 | 1 | 3 |

Clause coverage

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Logic expression | t/f | Side1 | Side2 | Side3 |
| triOut == 1 | Ture | 3 | 3 | 2 |
| False | 3 | 2 | 3 |
| Side1+Side2 > Side3 | Ture | 3 | 3 | 2 |
| False | 3 | 2 | 6 |

Correlated Clause Coverage

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| triOut == 1 | Side1+Side2 > Side3 | Side1 | Side2 | Side3 |
| T | T | 2 | 2 | 2 |
| T | F | 2 | 2 | 5 |
| F | T | 1 | 3 | 3 |
| F | F | 1 | 3 | 5 |

TritypMutantOne

|  |  |  |
| --- | --- | --- |
| Side1 | Side2 | Side3 |
| 2 | 2 | 5 |

Expected：4

Actually：2

TritypMutantTwo

|  |  |  |
| --- | --- | --- |
| Side1 | Side2 | Side3 |
| 2 | 2 | 4 |

Expected：4

Actually：2