**Input space partition**

* Each choice coverage

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **OUTPUT** |
| 0 | 0 | 0 | 4 |
| -1 | -1 | -1 | 4 |
| 1 | 1 | 1 | 3 |

* Pair-wise coverage

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **OUTPUT** |
| -1 | -1 | -1 | 4 |
| 0 | -1 | 0 | 4 |
| -1 | 0 | 0 | 4 |
| -1 | 1 | 1 | 4 |
| 0 | 1 | -1 | 4 |
| 0 | -1 | 0 | 4 |
| 1 | 0 | -1 | 4 |
| 1 | 1 | 0 | 4 |
| 0 | 0 | 1 | 4 |

**Graph coverage**

* Node coverage

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **OUTPUT** |
| 0 | 1 | 1 | 4 |
| 2 | 2 | 4 | 4 |
| 1 | 1 | 1 | 3 |
| 1 | 2 | 4 | 3 |
| 2 | 2 | 3 | 2 |
| 2 | 3 | 2 | 2 |
| 3 | 2 | 2 | 2 |
| 3 | 4 | 5 | 1 |

* Edge coverage

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **OUTPUT** |
| 0 | 1 | 1 | 4 |
| 2 | 2 | 4 | 4 |
| 1 | 1 | 1 | 3 |
| 1 | 2 | 4 | 3 |
| 2 | 2 | 3 | 2 |
| 2 | 3 | 2 | 2 |
| 3 | 2 | 2 | 2 |
| 3 | 4 | 5 | 1 |

* Prime path coverage

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **OUTPUT** |
| 0 | 1 | 1 | 4 |
| 2 | 2 | 4 | 4 |
| 2 | 4 | 2 | 4 |
| 4 | 2 | 2 | 4 |
| 1 | 1 | 2 | 4 |
| 1 | 1 | 1 | 3 |
| 2 | 2 | 3 | 2 |
| 2 | 3 | 2 | 2 |
| 3 | 2 | 2 | 2 |
| 3 | 4 | 5 | 1 |

* All-use coverage

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **OUTPUT** |
| 2 | 2 | 4 | 4 |
| 2 | 4 | 2 | 4 |
| 4 | 2 | 2 | 4 |
| 3 | 3 | 3 | 3 |
| 2 | 2 | 3 | 2 |
| 2 | 3 | 2 | 2 |
| 3 | 2 | 2 | 2 |
| 3 | 4 | 5 | 1 |

**Logic coverage**

* Predicate coverage

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **OUTPUT** |
| 0 | 1 | 1 | 4 |
| 1 | 1 | 1 | 3 |

* Clause coverage

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **OUTPUT** |
| 0 | 0 | 0 | 4 |
| 1 | 1 | 1 | 4 |

* Correlated Active Clause Coverage

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **OUTPUT** |
| 0 | 1 | 1 | 4 |
| 1 | 0 | 1 | 4 |
| 1 | 1 | 0 | 4 |
| 1 | 1 | 1 | 3 |

**Mutation testing**

* TritypMutantOne.java

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **OUTPUT** |
| 1 | 1 | 2 | 4 |

* TritypMutantTwo.java

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **OUTPUT** |
| 1 | 1 | 2 | 4 |