|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **ChatGPT** | | | | | **Llama 3** | | | | |
| **Percentage Range** | **0 - 20** | **20 - 40** | **40 - 60** | **60 - 80** | **80 - 100** | **0 - 20** | **20 - 40** | **40 - 60** | **60 - 80** | **80 - 100** |
| **Total** | 0 / 77 | 0 / 77 | 0 / 77 | 0 / 77 | 77 / 77 | 0 / 41 | 0 / 41 | 0 / 41 | 0 / 41 | 41 / 41 |

**Line Coverage for all 10 Java Program’s Green Test Suites of ChatGPT & Llama 3 with Prompt 1**

Green Test Suites refer to Test Suites where all unit test pass. The upper bounds are exclusive except the 80 – 100 percentage range.

**Mutation Score for all 10 Java Program’s Green Test Suites of ChatGPT & Llama 3 with Prompt 1**

Green Test Suites refer to Test Suites where all unit test pass. The upper bounds are exclusive except the 80 – 100 percentage range.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **ChatGPT** | | | | | **Llama 3** | | | | |
| **Percentage Range** | **0 - 20** | **20 - 40** | **40 - 60** | **60 - 80** | **80 - 100** | **0 - 20** | **20 - 40** | **40 - 60** | **60 - 80** | **80 - 100** |
| **Total** | 0 / 77 | 6 / 77 | 2 / 77 | 14 / 77 | 55 / 77 | 0 / 41 | 0 / 41 | 1 / 41 | 13 / 41 | 27 / 41 |