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**Procedure:**

During this offline, a dataset of 10000 unique random strings were generated & among those strings, 1000 strings were taken randomly and searched.

For hashing functions, Polynomial Rolling Hash & djb2 were used.

**Data Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Collision Resolution Method | Hash1 | | Hash2 | |
| No. of Collisions | Avg. Probes | No. of Collisions | Avg. Probes |
| Chaining Method | 3686 | 1.40901 | 3679 | 1.44099 |
| Double Hashing | 82877 | 6.60138 | 77355 | 5.24033 |
| Custom Probing | 76422 | 7.76157 | 71415 | 4.8526 |