**BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF CSE**

CSE 208: Data Structures and Algorithm Sessional

**Assignment: Offline-07(Hash table)**

**Submitted By,**

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**Lab Group:** C1

I have considered max\_chain\_length as 25

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Hash  Table Size | Collision  Resolution  Method | Hash1 | | Hash2 | |
| # of  Collisions | Average Probes | # of  Collisions | Average Probes |
| 5000 | Chaining | 5663 | 1 | 5730 | 1 |
| Double Hashing | 36171 | 2395 | 28835 | 2395 |
| Custom Probing | 34410 | 2395 | 41476 | 2396 |

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| --- | --- | --- | --- | --- | --- |
| Hash  Table Size | Collision  Resolution  Method | Hash1 | | Hash2 | |
| # of  Collisions | Average Probes | # of  Collisions | Average Probes |
| 10000 | Chaining | 3683 | 1 | 3685 | 1 |
| Double Hashing | 61809 | 4 | 63510 | 5 |
| Custom Probing | 61961 | 6 | 60700 | 5 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Hash  Table Size | Collision  Resolution  Method | Hash1 | | Hash2 | |
| # of  Collisions | Average Probes | # of  Collisions | Average Probes |
| 20000 | Chaining | 2171 | 1 | 2105 | 1 |
| Double Hashing | 3958 | 1 | 3780 | 1 |
| Custom Probing | 3913 | 1 | 3705 | 1 |