CSE 208

Data Structures & Algorithms II

1705066

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Procedure:

During this offline experiment, a dataset of 10,000 unique random strings were generated. After generations, each and every one of them was inserted into their respective HashTable for each operation.

The number of collisions was counted during the insert and the average number of probes were counter during a search operation on randomly chosen 1,000 unique strings from the dataset.

The table below contains insights during the experiment.

Data Table:

Collision Resolution Method	Hash 1 (35.8%)		Hash 2 (37.1%)	
	No. of collisions (10,000)	Average probes (1,000)	No. of collisions (10,000)	Average probes (1,000)
Chaining Method	3684	0.49	3655	0.514
Double Hashing	60656	6.506	60467	10.135
Custom Probing	64856	7.419	64227	6.837

Timestamp: 4.02 AM, 20-11-2020