CSE208 (Data Structures and Algorithms Sessional II)
Offline 8: Hash Table

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In this assignment, the hash table data structure was implemented using two different hash functions and three different collision resolution methods. Here, the number of collision and average number of probes in each case is being presented in a tabular format. The choice of hash functions was inspired by [1].

Collision Resolution Method	Hash1		Hash2	
	No. of Collisions	Average Probes	No. of Collisions	Average Probes
Chaining Method	3701	1.5876	3652	1.5753
Double Hashing Method	62311	7.2311	65758	7.5758
Custom (Quadratic) Probing Method	58328	6.8328	60083	7.0083

Table 1: Performace of Hash Functions

References

[1] Ramakrishna, M. V., and Zobel, J. Performance in practice of string hashing functions. In *Proceedings of the Fifth International Conference on Database Systems for Advanced Applications (DASFAA)* (1997), World Scientific Press, p. 215–224.