

# CSE 208: Data Structures & Algorithms Sessional II

## Offline 7: Hash Table

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L-2, T-2

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Hash 1 : polynomia rolling

Hash 2 : sum (hash\_val \*31 + string[i])

Aux\_Hash : sum (string[i])

Hash Table Size	Collision Resolution Method	Hash1		Hash2	
		# Of Collisions	Average Probes	# Of Collisions	Average Probes
5000	Chaining	1866	1.426	1849	1.466
	Double Hashing	30798	669.815	30145	639.87
	Custom Probing	28126	940.554	3251	827.27

Hash Table Size	Collision Resolution Method	Hash1		Hash2	
		# Of Collisions	Average Probes	# Of Collisions	Average Probes
10000	Chaining	3653	1.462	3658	1.531
	Double Hashing	63930	8.43	58710	6.369
	Custom Probing	61464	8.017	72461	5.978

Hash Table Size	Collision Resolution Method	Hash1		Hash2	
		# Of Collisions	Average Probes	# Of Collisions	Average Probes
20000	Chaining	2098	1.252	2136	1.214
	Double Hashing	3851	1.419	3883	1.382
	Custom Probing	3834	1.368	3903	1.424