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CMSC 204

Hashing Lab + Write Up

Linear Probing Hash Table:



Quadratic Probing Hash Table:



Linear-quotient collision path Hashing Table:



Bucket Hashing Table:



Learning Experience:

For this lab, I learned how to do various hashing calculations given a set of key values. I learned how to implement linear probing, quadratic probing, linear probing with a collision path algorithm, and bucket hashing tables. One issue I encountered was in the linear-quotient collision path algorithm. When offset = 4k + 3prime, I thought that just prime was equal to 19 so I subbed in k as key value and prime as 19 instead of using 19 for the whole equation. It ended in problems so I instead tried using just 19 and everything worked out. Hashing can be used in the future for storing and accessing values because it is faster than looking for the original value.