

Hash Tables:

Types of Tables:

Main Components for Hash Tables:

Properties:

Determining Table Size:

Collision Resolution:

Separate Chaining:

Open Addressing:

Types:

Linear Probing:

3 Rehashing (linear)

Quadratic Probing:

Double Hashing:

Ex:

F (probe)		Index

F (probe)		Index

F (probe)		Index

F (probe)		Index

Clustering:

w/ Linear Probing:

w/ Quadratic Probing:

Why is clustering a bad thing?

TC for Hashing Operations:

Operation/Method	Separate Chaining	Open Addressing
Successful Search		
Unsuccessful Search		
Insert		
Delete		
Perfect Conditions		

Dynamic Hashing/Rehashing:

Purpose:

When to rehash?

Load Factor: $\alpha =$

Time Complexity:

Space Complexity:

Perfect Hashing:

Hashing Strings:

Summary: