



Hash Table Summary

Learning Objectives

1. Explain Hash Tables at a high level



Hash Tables

```
Dictionary<KeyType, ValueType> d;  
d[k] = v;
```

Insert, Find, Remove

A **Hash Table** consists of three things:

1. A hash function
2. A data storage structure
3. A method of addressing *hash collisions*



Hash Tables Type

Open Hashing (Linked Lists)

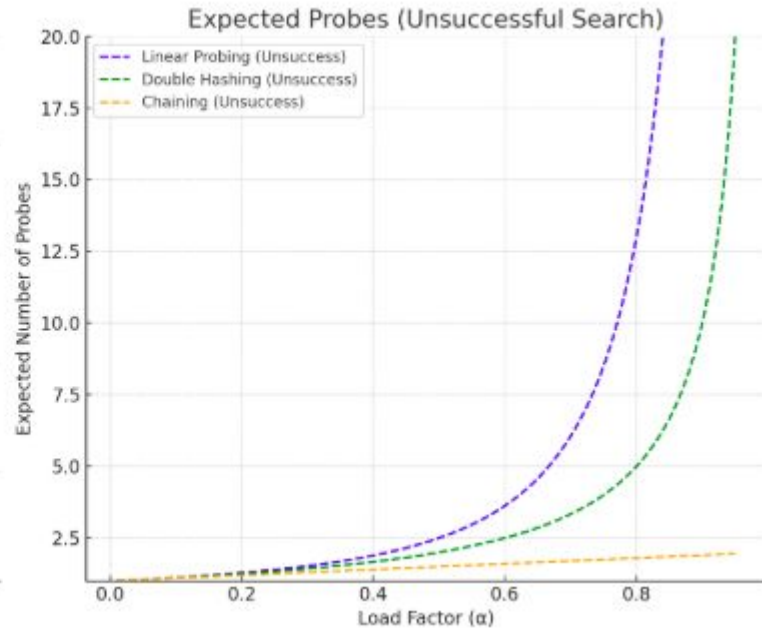
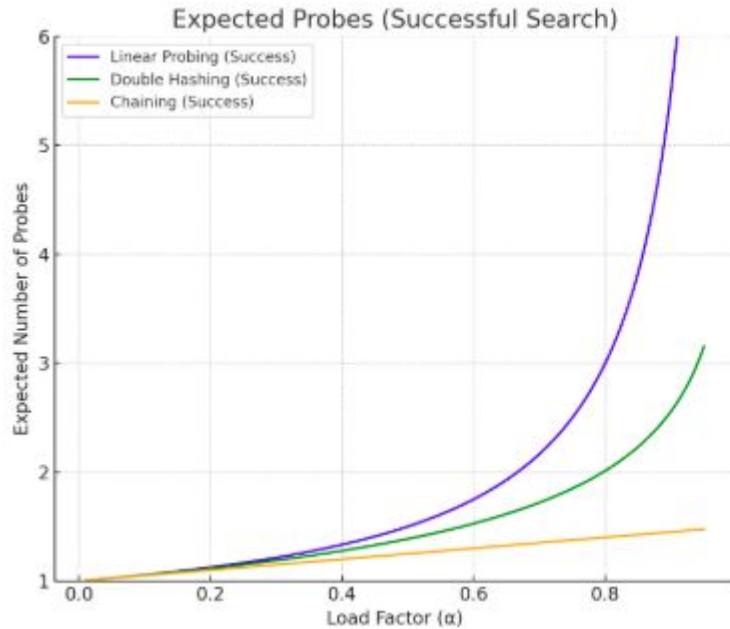
- Separate Chaining

Closed Hashing (Array)

- Linear Probing
- Double Hashing



Runtimes



Questions

Which collision resolution strategy is better?

- Big Records:
- Structure Speed:

What structure do hash tables implement?

What constraint exists on hashing that doesn't exist with BBSTs?

Why talk about BBSTs at all?

