

# For Friday

- Read Weiss, chapter 8, sections 1-3
- Paper 1 due

# Paper 1

- Any questions?

# Splay Tree Homework

# Collision Handling Options

- Separate chaining
- Open addressing
  - Linear probing
  - Quadratic probing
  - Double hashing

# Separate Chaining

- What is it?
- Advantages?
- Disadvantages?

# Open Addressing

- Just going to have the one table, so need to calculate a new location in the table if there's a collision

# Linear probing

- How do we find a new location?
- What are advantages of this approach?
- What are potential problems with this approach?

# Quadratic Probing

- How do we find the next location with this approach?
- What advantages does it have over linear probing?
- What are possible problems with the approach?

# Double Hashing

- What's the approach?
- Advantages?
- Disadvantages?

# Notes on Hashing

- Hash buckets
- The importance of primes
- Performance

# External Dictionaries

- How would hashing differ for external dictionaries?

# Extendible Hashing

- Usually applied to external dictionaries.
- What's the basic idea?