

# Recurrence Relations

- Connection to recursive algorithms
- Techniques for solving them

# Recursion *and* Mathematical Induction

In both, we have general and boundary conditions:

The **general** conditions break the problem into smaller and smaller pieces.

The *initial* or **boundary** condition terminate the recursion.

Both take a **Divide and Conquer** approach to solving mathematical problems.

# The Towers of Hanoi

