

## Chapter 4

# Induction, Recursion, and Recurrences

### 4.1 Mathematical Induction

#### Smallest Counter-Examples

In Section 3.3, we saw one way of proving statements about infinite universes: we considered a “generic” member of the universe and derived the desired statement about that generic member. When our universe is the universe of integers, or is in a one-to-one correspondence with the integers, there is a second technique we can use.

Recall our our proof of Euclid’s Division Theorem (Theorem 2.12), which says that for each pair  $(m, n)$  of positive integers, there are nonnegative integers  $q$  and  $r$  such that  $m = sq + r$  and  $0 \leq r < n$ . For the purpose of a proof by contradiction, we assumed that the statement was false. Then we said the following: “Among all pairs  $(m, n)$  that make it false, choose the smallest  $m$  that makes it false. We cannot have  $m < n$  because then the statement would be true with  $q = 0$  and  $r = m$ , and we cannot have  $m = n$  because then the statement is true with  $q = 1$  and  $r = 0$ . This means  $m - n$  is a positive number smaller than  $m$ . We assumed that  $m$  was the smallest value that made the theorem false, and so the theorem must be true for the pair  $(m - n, n)$ . Therefore, there must exist a  $q'$  and  $r'$  such that

$$m - n = q'n + r', \text{ with } 0 \leq r' < n.$$

This is  $m = (q' + 1)n + r'$ . Now, by setting  $q = q' + 1$  and  $r = r'$ , we can satisfy the theorem for the pair  $(m, n)$ , contradicting the assumption that the statement is false. Thus the only possibility is that the statement is true.”

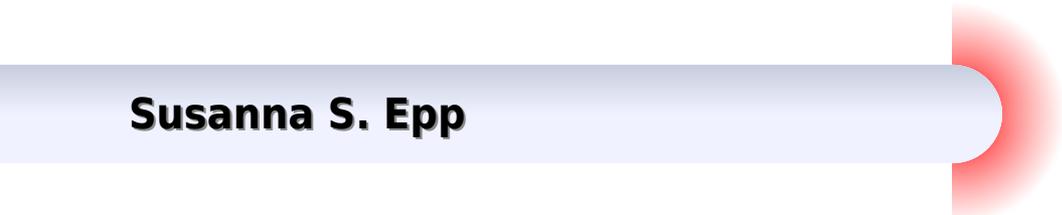
Focus on the sentences: “This means  $m - n$  is a positive number smaller than  $m$ . We assumed that  $m$  was the smallest value that made the theorem false, and so the theorem must be true for the pair  $(m - n, n)$ . Therefore, there must exist a  $q'$  and  $r'$  such that

$$m - n = q'n + r', \text{ with } 0 \leq r' < n.$$

This is  $m = (q' + 1)n + r'$ .” To analyze these sentences, let  $p(m, n)$  denote the statement “there are nonnegative integers  $q$  and  $r$  with  $0 \leq r < n$  such that  $m = sq + r$ .” The quoted sentences

# 4 2 Recursion Recurrences And Induction

**Susanna S. Epp**



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