

Mathematical Induction: Strong Induction

- PROBLEM 10.1.1** Suppose you are given a sequence a_1, a_2, a_3, \dots of integers, and you are told that $a_1 = 1$ and $a_2 = 1$. You are also told that for each $n \geq 3$, a_n is the sum of the two preceding terms, a_{n-1} and a_{n-2} . Prove that for each $n \geq 1$, a_n is a Fibonacci number.

SOLUTION: We will use strong induction to prove that for each $n \geq 1$, a_n is a Fibonacci number. The base cases are $a_1 = 1$ and $a_2 = 1$.

$$a_1 = 1 = F_1 \quad \text{and} \quad a_2 = 1 = F_2$$

Suppose that for each $k < n$, a_k is a Fibonacci number. We want to show that a_n is a Fibonacci number. By the definition of the sequence, a_n is the sum of the two preceding terms, a_{n-1} and a_{n-2} . By the induction hypothesis, a_{n-1} and a_{n-2} are Fibonacci numbers. Therefore, a_n is the sum of two Fibonacci numbers, and hence a_n is a Fibonacci number.

$$a_n = a_{n-1} + a_{n-2} = F_{n-1} + F_{n-2} = F_n$$

Thus, by strong induction, a_n is a Fibonacci number for each $n \geq 1$.

$$a_1 = 1 = F_1 \quad \text{and} \quad a_2 = 1 = F_2$$

For $n \geq 3$, suppose that for each $k < n$, a_k is a Fibonacci number.

$$a_n = a_{n-1} + a_{n-2} = F_{n-1} + F_{n-2} = F_n$$

- PROBLEM 10.1.2** Suppose that a_1, a_2, a_3, \dots is a sequence of integers such that $a_1 = 1$ and $a_2 = 1$. Suppose also that for each $n \geq 3$, a_n is the sum of the two preceding terms, a_{n-1} and a_{n-2} . Prove that for each $n \geq 1$, a_n is a Fibonacci number.

SOLUTION: We will use strong induction to prove that for each $n \geq 1$, a_n is a Fibonacci number. The base cases are $a_1 = 1$ and $a_2 = 1$.

$$a_1 = 1 = F_1 \quad \text{and} \quad a_2 = 1 = F_2$$

Suppose that for each $k < n$, a_k is a Fibonacci number.

- PROBLEM 10.1.3** Suppose that a_1, a_2, a_3, \dots is a sequence of integers such that $a_1 = 1$ and $a_2 = 1$. Suppose also that for each $n \geq 3$, a_n is the sum of the two preceding terms, a_{n-1} and a_{n-2} . Prove that for each $n \geq 1$, a_n is a Fibonacci number.

SOLUTION: We will use strong induction to prove that for each $n \geq 1$, a_n is a Fibonacci number. The base cases are $a_1 = 1$ and $a_2 = 1$.

$$a_1 = 1 = F_1 \quad \text{and} \quad a_2 = 1 = F_2$$

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