Very easy induction proof

A proof by induction has two steps:

- 1. Confirming that P(n) is true for some initial values
- 2. Check that when P(n) is true it implies that P(n+1) is true. The first step is called the "Base Case" and the second step is called the "Induction Step".

The Induction Step has two parts: The Inductive Hypothesis (assuming P(n) is true for some arbitrary n) and then using that to deduce P(n + 1) is true.