CSC236 Worksheet 2 Solution

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Question 1

- **<u>Notes:</u>**

    - Complete Induction
        * **<u>Statement:</u>** $\forall i \in \mathbb{N},\ \forall n \in \mathbb{N},\ n < i \Rightarrow A(n) \Rightarrow \forall i \in \mathbb{N},\ A(i)$
        * **<u>Statement Alt.:</u>** $\left(\forall n \in \mathbb{N},\ \left[\bigwedge\limits_{k=0}^{k=n-1} P(k)\right] \Rightarrow P(n)\right) \Rightarrow \forall n \in \mathbb{N}, P(n)$

Question 2

Question 3