

# Assignment 3: More induction, Sets and Relations

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## 1 Problem 2

The step case is wrong since to convert the set  $S$  with  $\#S=n$  to a set  $S$  which  $\#S=n+1$  we need an increase size operation:  $S_{n+1} = S_n \cup x \forall x \notin S$ . E.j. the set of the step case is the same set as the one in the base case.