Short Assignment 5

Mathematical Induction.

1 Instructions

You should write up and print out your solutions to this assignment, and hand them in at class time, and submit them using Sakai.

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NB: (equal? class (or lecture recitation)) 
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You must work alone on short assignments.

Cheating is a very serious issue, and we take it as such; please read over the Course Information and the Duke Honor Code.

You must write and sign a pledge on your assignment, that you acted honestly in completing the assignment.

2 Assignment

The following is an unusual implementation of the square function. Use the substitution model and mathematical induction to prove that if n is a non-negative integer then the call (square-int n) returns n^2 .