



Structural Induction

To prove P(x) holds for all x in recursively defined set R, prove
•P(b) for each base case b ∈ R
•P(c(x)) for each constructor, c, assuming ind. hyp. P(x)





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C 0 8 0

Matched Paren Strings M

Albert R Meyer, February 29, 2012

Lemma: Every s in M has the same number of]'s and ['s.

Proof by structural induction on the definition of $\ensuremath{\mathsf{M}}$

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lec 5M.4

7W.2









