Jay Patel

HW2

CS 342

Professor Dr. Basu

Q1.

(

((zero second) false)

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False

1. (g n) when n results from some application succ on 0

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True

c. What mathematical/logical operation is computed by g?

Non-negative, since it will always check if it is bigger than 0.

Q2. Consider the following λ-expression: Y: λt.(λx.(t (x x)) λx.(t (x x)))

Prove/disprove that (Y t) after application of several β-reductions result in (t (Y t)).

For (Y t):

x(t(xx))

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For (t(Y t)):

(t(

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