

A0–MinMax Algorithm Analysis

Michael Fulton

February 3, 2015

1 Recursive Analysis

The function which relates cost functions to number of inputs for my recursive algorithm is as follows:

$$C(N) = \begin{cases} 2C(\frac{N}{2}) + 2 & \text{if } N < 21 \\ 20 & \text{if } N \leq 1 \end{cases}$$

$$f(n) = \begin{cases} n/2 & \text{if } n \equiv 0 \\ (3n+1)/2 & \text{if } n \equiv 1. \end{cases}$$

2 Iterative Analysis

3 Plots

