

Homework 2

Due: Thu. Sep. 20, 11:00 PM

You may write or type your answers, but you must show all steps in your solutions to receive full credit.

1. Uninformed Search

- a. (3 points) Consider a state space where the starting/initial state is labeled 1 ($n=1$ for the initial state), and the successor function for state n returns three states: $2n$, $2n+1$, $2n+3$. Draw the search tree describing this state space for all states 1 to 10 (states may be repeated in the tree, but no state higher than 10).

