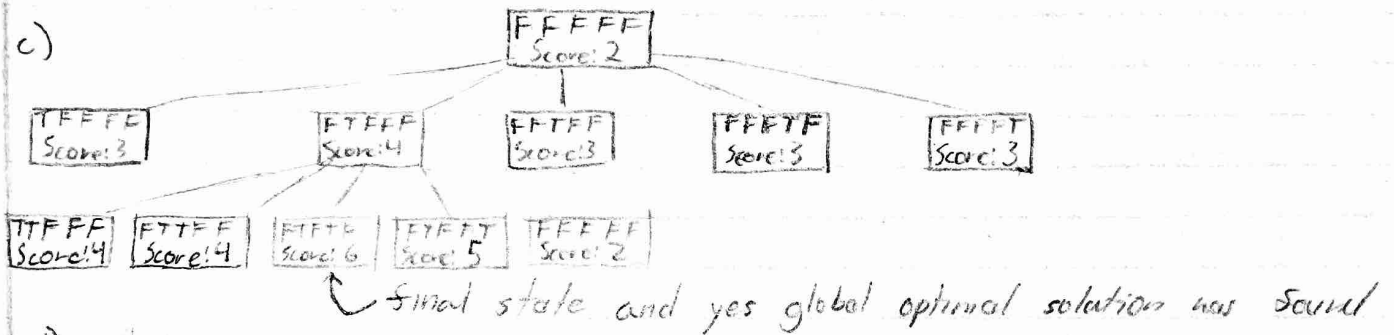
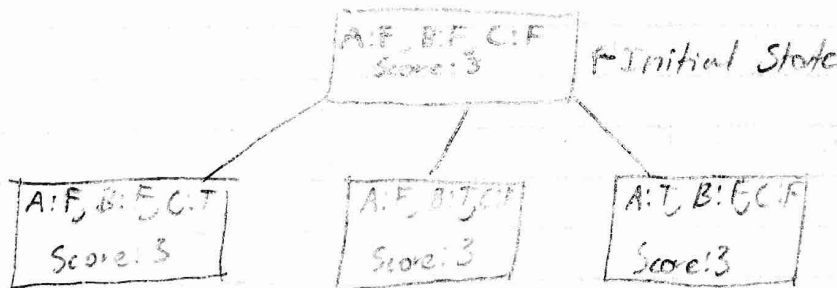


Problem #2

- a) If you have n Boolean variables, there are n neighboring states produced by the Successor function.
- b) all possible states that can be reached by one initial state: 2^n
 number of possible initial states: 2^n
 total size of search space: $2^n \cdot 2^n = 2^{n+n} = 4^n$



d)



$\left. \begin{array}{l} TTT \\ FTT \\ TFT \\ TTF \end{array} \right\}$ not possible as initial states, because score is 4, which is a goal state