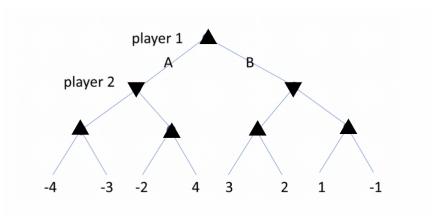
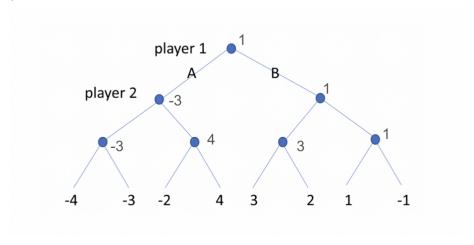
Problem 1

a.

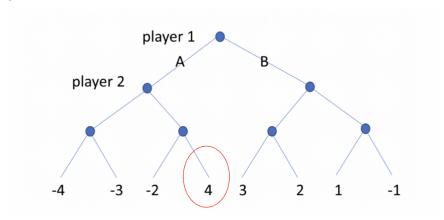


b.



- c. B is more optimal for player 1 to take
- d. Expected outcome is 1

e.



- f. From left to right the leaves could be relabeled as: 3, 4, 2, 1, -1, -2, -3, -4
- g. From left to right the leaves could be relabeled as: -4, 4, -3, 3, -2, 2, -1, 1 $\,$

Problem 2

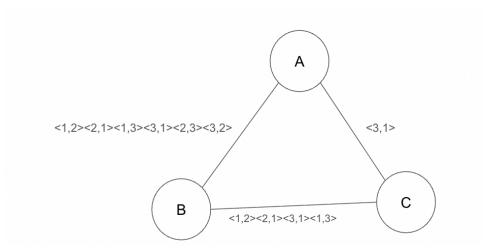
a.

vars = {A, B, C}

domains: $dom(s) = \{1, 2, 3\}$

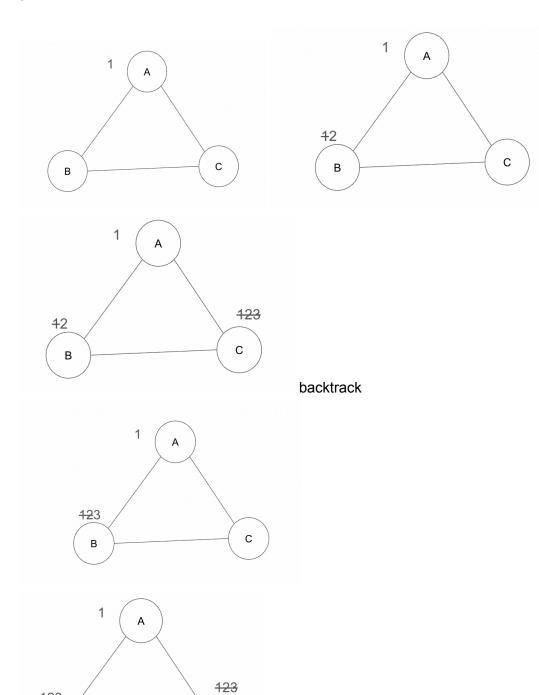
constraints: A != B, B != C, A != C, A != C + 1, C != A + 1, C != 3

b.



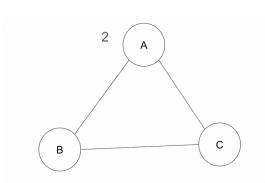
123

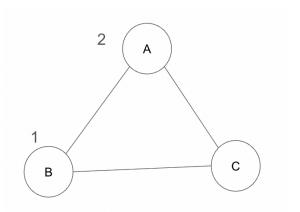
В

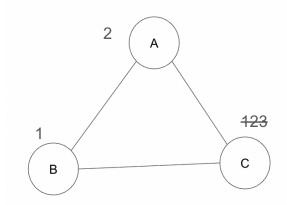


С

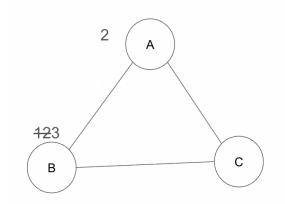
backtrack

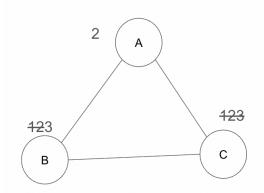




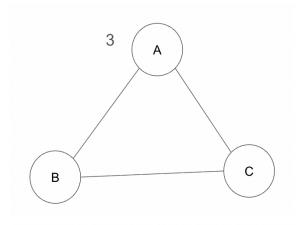


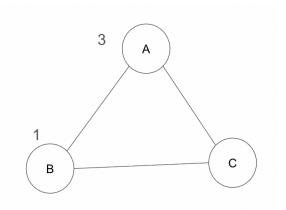
backtrack

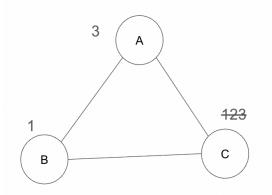




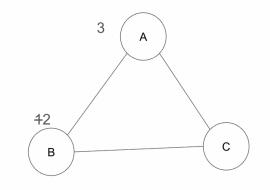
backtrack

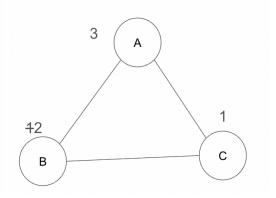






backtrack





d.

