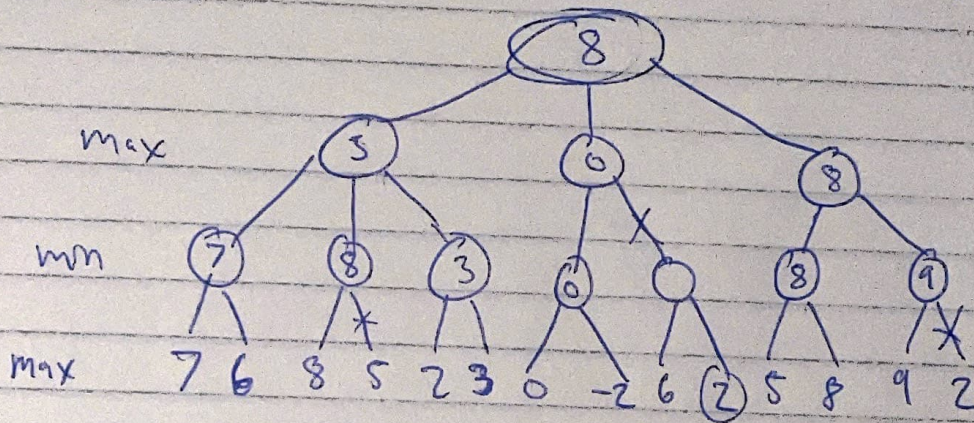


# Problem Set #3

Had B

- 1) a) The worst case is when no pruning happens,  $O(b^d)$
- b) The best case is  $O(b^{d/2})$
- c) The best case conditions are that at max levels the first value is a max, and for min levels the lowest value of that layer is first.
- d) the worst case is where at the max levels the lowest values are evaluated first, and at min levels the highest are min

2) a)



- b) I would make all the largest values nodes first with the largest values subtree being first.