Assignment 4

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* 1. O(n), since the function will run through only one for loop of size n at the worst case
  2. O(log n), since this is a binary search which always has this complexity when implemented correctly
  3. O(n3), since all three for loops will have to be executed, this function will iterate n3 times
  4. O(n log n), since this is an example of a shortest path with good implementation

1. O(2n), because to evaluate a tree, every level added will double the amount of iterations required, making the relation 2n when simplified using asymptotic Big O notation, eliminating all but the dominant term of 2n

NOTE: all above functions are evaluated at worst case