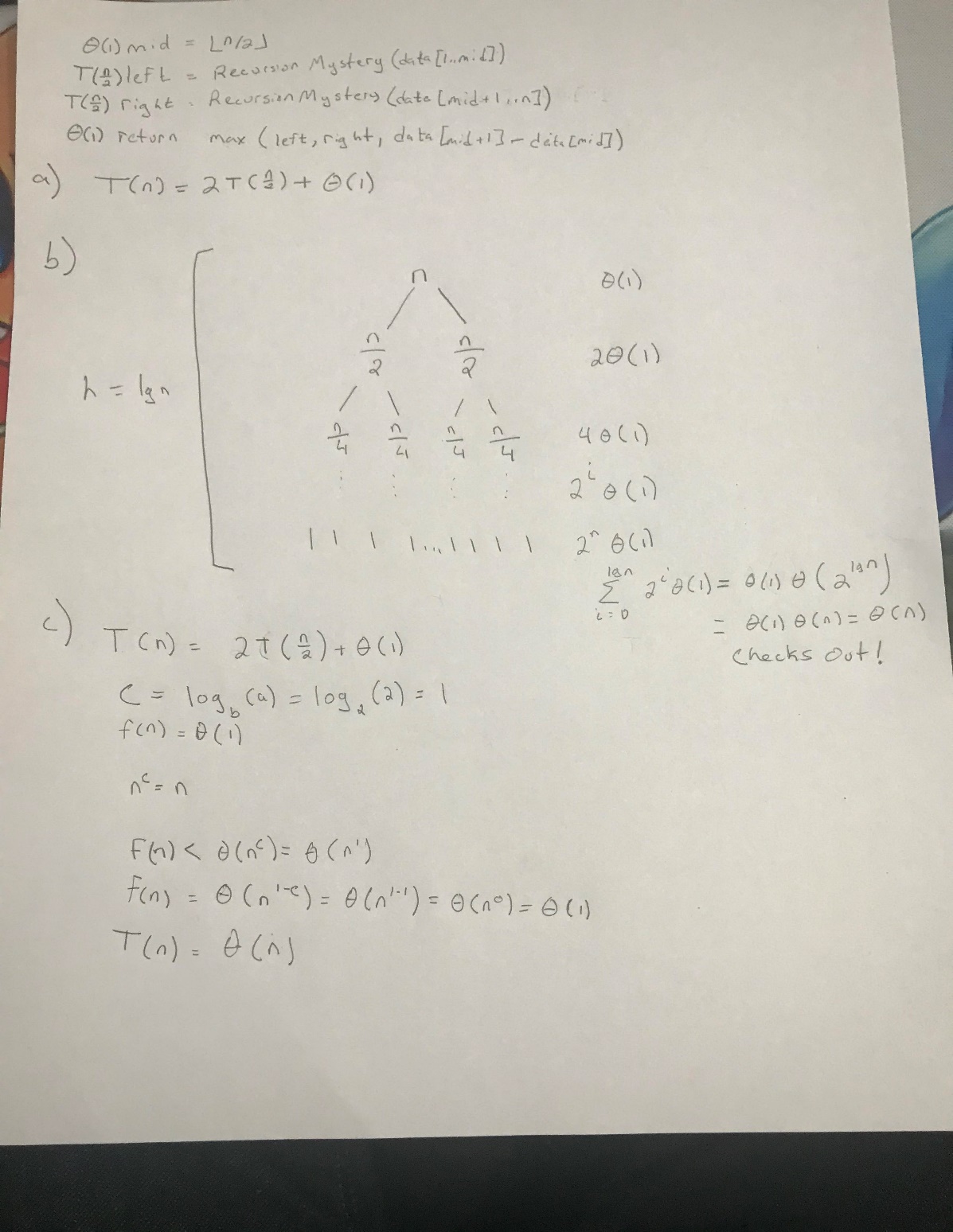
David Hatcher

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Homework 3

1. * 1. Line 5 – O(1)
     2. Line 6 – O(1)
     3. Line 7 – O(1)
     4. Line 4 – O(n – delta - 1) or O(n - delta)
     5. **Total worst-time** is O(n – delta)
   1. O(lgn -1) -> O(lgn)
   2. 1. O(n) – O(delta) = O(n) – O(n/2) + O(n) – O(n/4) + … + O(n) – O(1)

2.