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CMPT 435 - Extra Assignment #2

1) $T(n) = O(n) + 2T(n/2)$
   $= O(n) + 2(O(n / 2) + 2T(n / 4))$
   $= O(n) + O(n) + 4T(n / 4)$
   $= O(n) + O(n) + O(n) + 8T(n / 8)$
   $= O(n \log n)$
   $O(n) = n \log n$
2) $O(n) = n \log n$