f.)

1. Space Complexity
   1. O(n)
   2. There are ways to do this problem without an array, but it could potentially increase the time complexity of the solution
2. Time Complexity
   1. F(n) = 2n
   2. 2n is O(n)
      1. 0 <= 2n <= cn
      2. 0/n <= 2n/n <= cn/n
      3. 0 <= 2 <= c, c = 2
      4. For c = 2
      5. 2n <= O(n)