Assignment 1

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1. What is a greedy algorithm?

   A greedy algorithm is one that repeatedly finds/uses a local solution instead of trying to find a global solution to a problem.

2. How else could you solve the above problem?

   An alternative approach would be to exhaustively list all the combinations of coins that add up to the total, and see what the smallest number of coins used is.

3. What other problems are greedy algorithms successfully used for?

   Finding the maximum/minimum product of terms within an array can be done via a greedy algorithm.