Assignment 1

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"Jumping In"

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Part 4 - Questions

1. *What is a greedy algorithm - you can look up definitions online but final response should be in your own words.*

    (a) A greedy algorithm is an algorithm in which the next step that is taken is always the one which offers the most benefit at the lowest cost.

2. *How else could you solve the above problem?*

    (a) Using a greedy algorithm. This goes hand in hand with the coin problem, for the coin problem seeks to find the most efficient and beneficial way to return the customer's change.

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

    (a) Greedy algorithms could be used for navigation apps. This would be useful, as the algorithm would always choose the most efficient next step, deccreasing the travel time for the user.