

Assignment 1 (Part 4: Questions)

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

A greedy algorithm is an algorithm that looks at a problem and attempts to resolve it by finding the solution/step that solves in the quickest manner. You can say that a greedy algorithm looks for the “big picture” and goes through that route for the problem solving instead of doing tedious tasks.

2 How else could you solve the above problem?

You could solve the above problem by using the ‘while’ statements instead of using ‘if...else’ statements.

3 What other problems are greedy algorithms successfully used for?

Greedy algorithms can be used for problems that attempt to find the quickest or most optimal route for getting from one location to another. Google maps, Maps and other forms of GPS use greedy algorithms.