**Part 3: Compare the Algorithms**

Implement compare\_cow\_transport\_algorithms. Load the cow data in *ps1\_cow\_data.txt*, and then run your greedy and brute force cow transport algorithms on the data to find the minimum number of trips found by each algorithm and how long each method takes. Use the default weight limits of 10 for both algorithms. Make sure you’ve tested both your greedy and brute force algorithms before you implement this!  
  
**Hints:**

* You can measure the time a block of code takes to execute using the time.time() function as follows. This prints the duration in seconds, as a float. For a very small fraction of a second, it will print 0.0.

start = time.time()  
## code to be timed  
end = time.time()  
print(end - start)

* Using the given default weight limits of 10 and the given cow data, both algorithms should not take more than a few seconds to run.

Part 3-1

0.0/2.0 points (graded)

Now that you have run your benchmarks, which algorithm runs faster?

The Greedy Transport Algorithm

The Brute Force Transport Algorithm

They take the same amount of time

Part 3-2

0.0/2.0 points (graded)

Consider the properties of the GREEDY algorithm. Will it return the optimal solution?

Yes, all the time

No, never

It could, but it depends on the data, not always.

Part 3-3

0.0/2.0 points (graded)

Consider the properties of the BRUTE FORCE algorithm. Will it return the optimal solution?

Yes, all the time

No, never

It could, but it depends on the data, not always.