Algorithm 2: Greedy Approach to Hamiltonian Problem

Pseudocode:

Problem: finding the best starting city to make a round trip given distance, mpg, and fuel

Input: distance (arr int), fuel (arr int), mpg (int)

Output: best starting city

Constraints: valid ints (no negatives), total fuel from all cities must cover the journey, must

be a circular route

FUNCTION findStartingCity(distance, fuel, mpg)

Int n = distance.size

Int total_fuel = 0

Int current fuel = 0

For I from 0 to n-1:

Calculate total fuel for one round trip

If total_fuel < 0:

Return -1

For I from 0 to n-1:

Calculate total fuel for one round trip

If total_fuel < 0

Start with the next city

Reset fuel to 0

Return starting city