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C950 – Data Structures & Algorithms II

PA Task 1: WGUPS Routing Program Planning

1. Identify a named self-adjusting algorithm that could be used to create your program to deliver the packages.

I will be using the nearest neighbor algorithm as the core algorithm in my routing program. The nearest neighbor algorithm is an algorithm in which for each node left to visit, the nearest node is always the next to be visited. More information on my choice of using the nearest neighbor algorithm can be found in part C.

1. Identify a self-adjusting data structure that could be used with the algorithm identified in part A that could be used to create your program to deliver the packages.

I will be using a hash table to store packages with their related data. A hash table is a self-adjusting data structure which stores key-value pairs. More information on my choice of using a hash table can be found in part C.