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MET CS 566

Assignment Draft 2

1.1

Because it is a draft assignment, it is not very detailed. Regarding Divide-and-conquer, the first thing I think of is the postal system of each country. According to the address of the sender, it is first concentrated to the mail concentration place in the district, and then transported to the mail concentration place in the city. The second step is to distribute the mail and recipient addresses to different trucks (or planes). After these couriers are delivered to the destination city, they will be assigned to different couriers for delivery according to the district and street. Currently it looks like this is an O(n) algorithm.

1.2

INPUT

Package 1：to TUS AZ US

Package 2：to LA CA US

Package 3：to BOS MA US

Package 4：to Putuo District Shanghai China

Package 5：to PHX AZ US

OUTPUT

Package:1&2&3&4 are allocated into same country.

Package:1&5 are allocated into same state.

Package:4 is allocated into different country.

1.3

REQUIREMENT:

The address provided must has:Country,State,City and Address,if possible, should provide zip code

The output is after the information received, the system should divide the package to different trucks(trucks’ destination is different,some is to other states, some is to airport)