

Exercise 1:

In first Search function is not difficult in this i use list and read data from input and split with (:) and put [0] element in list and than i search the element in list and if it is there return true else return false

Exercise 2

In second exercise i have to get many problem in this firstly i read data from file and put make list inside list and inside list because i try to make dictionary and then if use ('l') than i put two or more element in 1 list and else for another element i make list for every element and than i check the path of the each package with depth first search and than i compare the 2 package and find best one and then put it in main list and delete the old package and then i make my final list

Difficulty

Biggest difficulty was time it was short time and near finish of semester but i manage

Complexity

Data structure is near about $O(n^{11+})$ what i calculate because 11 loop is running in my algorithm Search is only $O(n)$ because only in list i found an element dependencies is $O(n^3)$ because i use three loop for find the element inside the list inside list and inside list and put it into another list and return