

GA1: Linked List

Suppose, you are a very fan of soccer (also called football in Europe and many other countries). As you are a very rich person, so you want to be the owner of a football club. You found that Paris Saint-Germain (PSG) is one of the best football clubs in Europe but never won the UEFA Champions League (UCL) which decides the best football team in Europe. You love taking challenges, so you bought the club to be the CEO and first chairman to win the title.

As a chairman, you want to be familiar with all of the players. To keep track, you want to list down the information of each player. The information includes the name and the jersey number of each player, and also their playing position. You want to list down the information alphabetically of their names in ascending order so that you can easily find their information.

In this program, you are required to create the list, and find the index number of the provided player name. If the player's name does not exist, you will return -1. The first position of the index is 0.

Example 01:

input1.txt

Thiago Silva, 2, Defender
Marquinhos, 5, Defender
Alphonse Areola, 16, Goalkeeper
Neymar, 10, Forward
Edinson Cavani, 9, Forward
Marco Verratti, 6, Midfielder

command1.txt

Marquinhos
Thiago
Neymar

Command: ga1 input=input1.txt command=command1.txt output=output1.txt

output1.txt

Marquinhos: 3

Thiago: -1

Neymar: 4

Group members are supposed to discuss with each other to solve the problem. Note that every group member needs to submit their programs. Make sure to create **ga1** directory to submit your assignments. Group assignments will be graded once. There are no late submissions for group assignments.