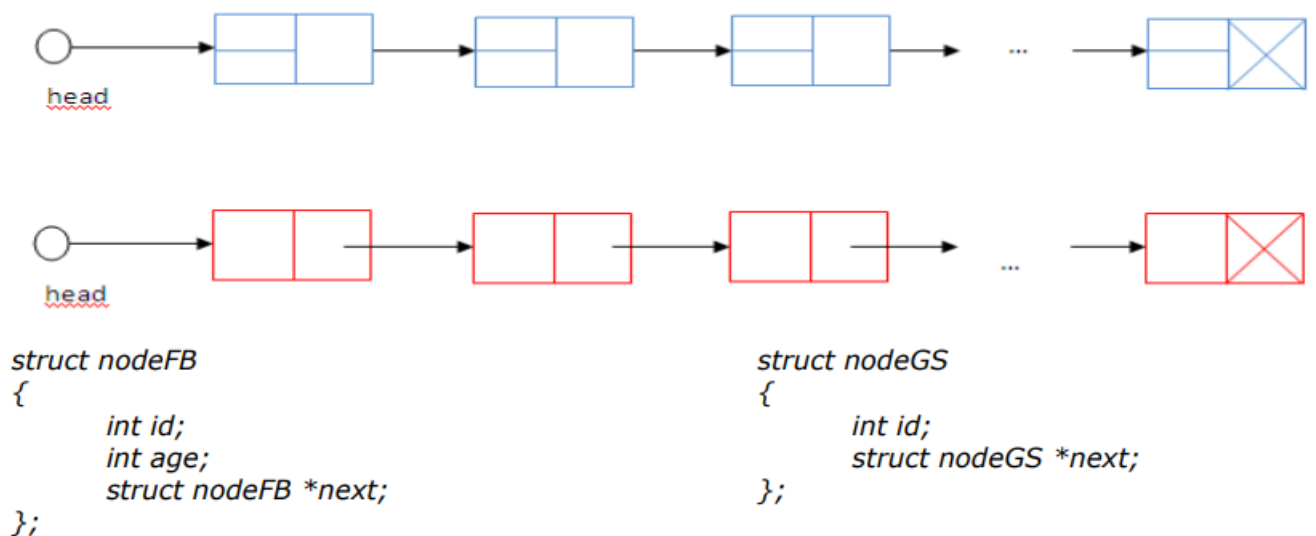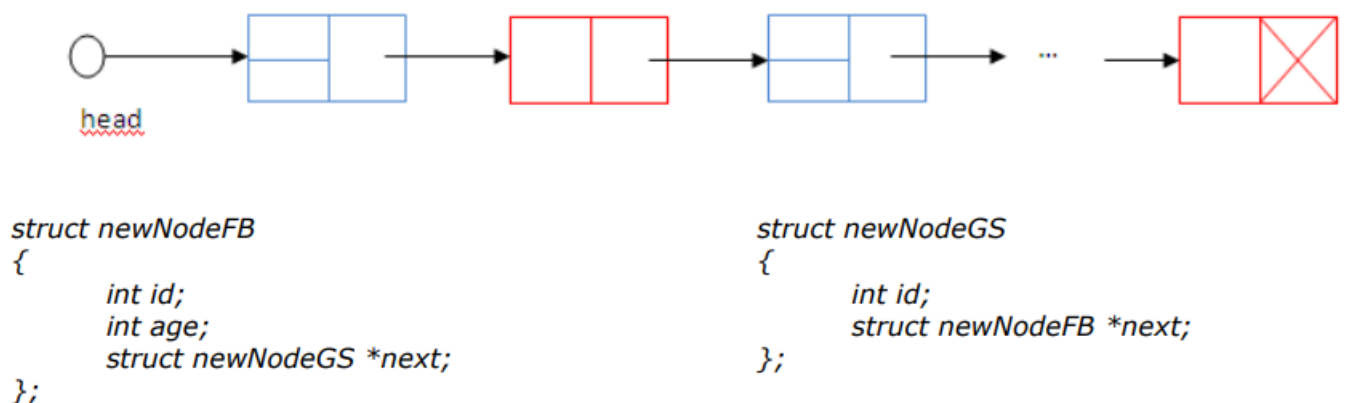# Ankara University
Computer Engineering
COM2067 LAB 2

In this lab, we have given you a main.c and function.h files. The main.c file contains only the int main() function, while the function.h file will consist of the definitions of all the other functions you will use in this application. Complete the function.h file so that the main.cpp file works without error to generate the expected output. First, check the main.c file carefully. You can examine SimpleTutorial.docx document to define functions in a separate file.

Fenerbahce and Galatasaray supporters are waiting in separate lines to get tickets. For each group of fans, get the related information (id and age for FB fans, id for GS fans) from the user and create the following link lists. FB fans will be inserted to link list in increasing order, GS fans in decreasing order with respect to their IDs. The number of fans in both link lists will be the same. The node structures to be used in the link list are given below.


```
struct nodeFB                          struct nodeGS
{                                      {
    int id;                                int id;
    int age;                               struct nodeGS *next;
    struct nodeFB *next;               };
};
```

You are then asked to combine these two linked lists using the following way. Use the new node structures when you are doing this placement.


```
struct newNodeFB                       struct newNodeGS
{                                      {
    int id;                                int id;
    int age;                               struct newNodeFB *next;
    struct newNodeGS *next;            };
};
```

Input:	Output:
456 45	193 25
561 41	456 45
821 20	561 41
193 25	821 20
882 37	882 37
-1	
872	892
272	872
345	764
892	345
764	272
-1	
	193 25
	892
	456 45
	872
	561 41
	764
	821 20
	345
	882 37
	272