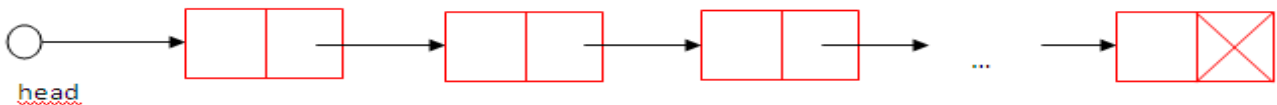


Ankara University
Computer Engineering
COM2067 LAB 2
Deadline: 30.10.2022 23:59

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.pdf document to define functions in a separate file.

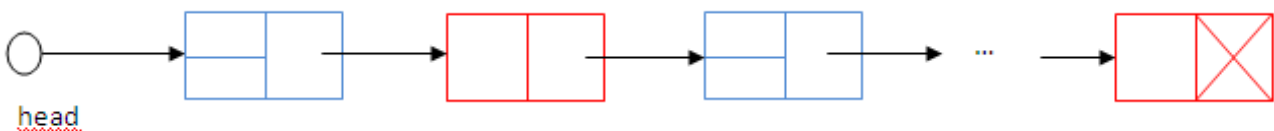
Fenerbahce and Galatasaray supporters are waiting in separate lines to get tickets. For each group of fans, get the related information (id and age for FB fans, id for GS fans) from the user and create the following link lists. FB fans will be inserted to link list in increasing order, GS fans in decreasing 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
{
    int id;
    int age;
    struct nodeFB *next;
};
```

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

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

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