

INFO 206 IMPERATIVE PROGRAMMING II

Exercise 1

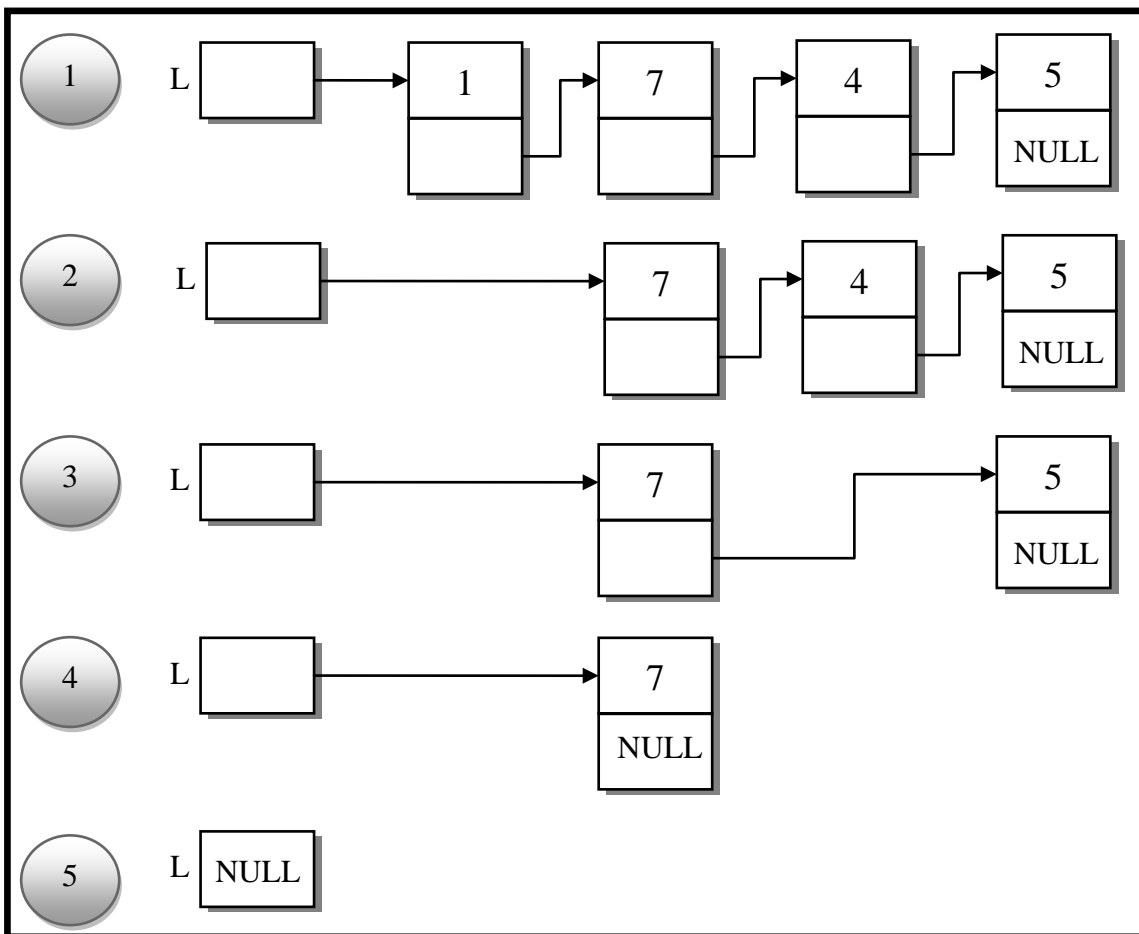
Consider the following definition:

```
typedef struct list{  
    int elt;  
    list * p;  
}list;
```

Using this list type, we created and filled a simple linear chained list pointed by **L**.

1. Write the function `int orderedDelete(list *L)` that deletes and free the elements of the list by increased order of its `elt` members.

Example of the deleting operation:



Exercise 2

1. Write the function **int createArray(int ** A)** that creates using dynamic allocation through the pointer A, an array of integers of length given by the user, this function must return the length of the allocated array.
2. Write the function **void fillArray(int* A, int n)** that fills from the keyboard the array of integers pointed by A of length n.
3. Continue the following main program that creates an integer pointer and calls respectively the two upper functions to fill it.

```
void main(){  
    int * anArray;  
    int n;  
  
    //call the function createArray:  
    ...  
  
    //call the function fillArray:  
    ...  
}
```

GOOD LUCK