TEST 3 Coding

Write a C program to implement the following requirement:

Input:

The program will read from standard input 2 lines of text (each line is separated by a newline character '\n') and then:

- Store each word on the first line into a node of a linked list L1
- Store each word on the second line into a node of a linked list L2

The implementation of a node of a linked list is the following:

```
struct NODE {
    char *word;
    Struct NODE *next;
};
```

Note:

- A word is a string that does not contain any whitespace with a maximum of 100 characters.
- The word(s) should be converted into **UPPERCASE** before adding to the linked list.

Output:

The program will print to standard output 3 things:

- On the first line, the original list of words of L1
- On the second line, the original list of words of L2
- The list of words in **alphabetical** order of the merged list of L1 and L2

Note: Each word is separated by a single comma ",". If there is nothing from stdin, print nothing.

SAMPLE INPUT 1
```
Hello CS240
This is Test 3
```

SAMPLE OUTPUT 1
```
HELLO,CS240
THIS,IS,TEST,3
3,CS240,IS,HELLO,TEST,THIS
```

SAMPLE INPUT 2
```
This test has only the first line
```

SAMPLE OUTPUT 2
```
THIS,TEST,HAS,ONLY,THE,FIRST,LINE

FIRST,HAS,LINE,ONLY,TEST,THE,THIS
```