Final Exam 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**. No duplication allowed.**
- Store each word on the second line into a node of a linked list L2**. No duplication allowed.**

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 **LOWERCASE** before adding to the linked list**.**
- The input does not end with a new line character '\n'**.**

Output:

The program will print to standard output the list of **common words of both L1 and L2** in **alphabetical order.** Each word is separated by a single comma ","**.** If there is no such word, print nothing**.**

Note: If there is nothing from stdin, print nothing**.**

SAMPLE INPUT 1
```
This is the first line. This test has 4 words that appear in both list.
This is the second LINE.
```

SAMPLE OUTPUT 1
```
is,line.,the,this
```

SAMPLE INPUT 2
```
Hello CS240,
This is the FINAL EXAM.
```

SAMPLE OUTPUT 2
```
<empty>
```