1. (100 pts) Write a program to find the common words in two strings. Read the two strings from the user and display the common words in the two sentences on the screen. One way to do this is to find the words in one sentence and check if they appear in the second sentence. Assume that words are case sensitive in your program and "One" and "one" do not match. Do not use string functions `strtok()` and `strstr()`. You can write your own versions of these functions and use them in your program if you want.

- You can work in groups of 2-4
- You can work on this during three weeks of recitations.

Sample executions is given below

```
Enter first sentence: This is first sentence
Enter second sentence: This is second sentence

Common Words: This is sentence
```

Since words are case sensitive we have the following sample execution

```
Enter first sentence: this is first Sentence
Enter second sentence: This is second sentence

Common Words: is
```

Your program should also handle the following case

```
Enter first sentence: this is first sentence
Enter second sentence: sentence second is this

Common Words: this is sentence
```

Submit your program electronically using the blackboard system. Only one member of the group should send it. List the name of the group members on the top of your submission.