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Self-Made Assignment - C Language

String Functions in C Language

Write a C program that uses some basic string functions to work with two text inputs.

Instructions:

1. Ask the user to enter two words or sentences (these are called *strings*).
2. Find the length of each string (how many characters are in each) and print these lengths on the screen.
3. Join (combine) the two strings into one long string and print the combined result.
4. Compare the two strings to see which one comes first in dictionary order (like alphabetical order). Then tell the user which string is "greater" or if they are the same.

Hint:

- **Input:** Your program should take two strings as input from the user.
- **Length:** Use the `strlen()` function to find out how many characters each string has.
- **Concatenation:** Use the `strcat()` function to join the second string at the end of the first string.
- **Comparison:** Use the `strcmp()` function to compare the two strings and figure out if:
 - The first string is "less" (comes before) the second string,
 - The first string is "greater" (comes after) the second string,
 - Or both strings are exactly the same.

Output:

```
Output
Enter first string: hello
Enter second string: world

Length of first string: 5
Length of second string: 5

Combined string: helloworld

Comparison result: "hello" is less than "world".
```

