

Problem 25: Compare two strings lexicographically and print which one is greater, smaller, or same .

Code:

```
#include <stdio.h>
#include <string.h>

int main() {
    char s1[100], s2[100];
    int cmp;

    printf("Enter first string: ");
    fgets(s1, sizeof(s1), stdin);
    s1[strcspn(s1, "\n")] = '\0';

    printf("Enter second string: ");
    fgets(s2, sizeof(s2), stdin);
    s2[strcspn(s2, "\n")] = '\0';

    cmp = strcmp(s1, s2);
```

```
    if(cmp == 0) printf("Same\n");  
    else if(cmp > 0) printf("First greater\n");  
    else printf("Second greater\n");  
  
    return 0;  
}
```

Output:

```
Enter first string: apple  
Enter second string: banana  
Second greater
```