

Sorting Names Lab
COMP 170
15 Points

The purpose of this lab is to apply the principles of string manipulation and to adapt a sorting algorithm for strings.

Write a program called **NAMESORT.CPP** that runs as follows:

```
Name? Bill Jones
Name? Sue Smith
Name? Beth Adams
Name? James Bell
Name?
```

After reversing, the names are:

```
Jones, Bill
Smith, Sue
Adams, Beth
Bell, James
```

After sorting, the names are:

```
Adams, Beth
Bell, James
Jones, Bill
Smith, Sue
```

Notes:

1. There will never be more than 100 names, and no name will be more than 29 characters long.
2. Your program should stop asking for names when the ENTER key is pressed in response to the "Name?" prompt, resulting in the empty string.
3. You must use a two dimensional array of characters (one dimensional array of strings) to store the names.
4. You should write a ReverseName function to change "John Doe" to "Doe, John". See the code given in class that does the opposite.
6. Your function should work on strings. You'll need to change the parameter types to char arrays, change the "<" and ">" operators to a call to strcmp, and change the assignment statements to calls to strcpy.