

Programming Assignment

For this exercise, Merge two strings s , t consisting of characters in the range a-z that are each in *sorted* order, to produce a new string whose characters are also in sorted order. Try the following recursive strategy:

1. Let chs be the 0th character of s and cht be the 0th character of t .
2. If chs comes before cht alphabetically, store chs , otherwise place cht in a buffer and remove the stored character from its original string
3. Merge the remaining strings (recursively) and insert the result in the buffer, placed after the stored character.

Name your class `MergeStrings` and your recursive method `merge`.

```
private String merge(String s, String t) {  
    // implement  
    return null;  
}
```