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`G` sec

4AL19CS079

Algorithm

1. Start
2. Input string, $i = 0$
3. while (str1[i] == str2[i] && .str[i] != '\0' } ; i++)

4. if (str1[i] > str2[i])
5. ("str1 > str2")
6. else if (str1[i] < str2[i])
7. ("str1 < str2")
8. else ("str1 = str2")

9. stop.

Flow chart

```
                          ( Start )
                              |
                              v
              +-------------------------------+
              |   Input String , i = 0        |
              +-------------------------------+
                              |
                              v
                          / while  \
                        / (str1[i] == \
                      <  str2[i] && str1[i])  >
                        \   = '\0'   /
                          \        /
                              |
                              v
                          /   if    \
                        /             \
                      <  (str1[i] > str2[i]) >
                        \             /
                          \         /
                              |
                              v
              +-------------------------------+
              |   ("str1 > str2")             |
              +-------------------------------+
                              |
                              v
                          /   else  \
                        /  if (str1[i] < str2[i]) \
                      <                           >
                        \                       /
                          \                   /
                              |
                              v
              +-------------------------------+
              |   ("str1 < str2")             |
              +-------------------------------+
                              |
                              v
                          /   else  \
                        / ("str1 = str2") \
                      <                     >
                        \                 /
                          \             /
                              |
                              v
                          ( Stop )
```