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Algorithm

Implement strcmp using pointers.

1. Start
2. Input string1 [50], string2 [50], *str1, *str2,
   int i, equal = 0.
3. Input first second string
4.   str1 = string1
        str2 = string 2
5. while (*str1 == *str2)
6. if (*str1 = '\0' || *str2 == '\0')
   break;
7.   str1++;
        str2++;
8. if (*str1 == '\0' && *str2 == '\0')
   output strings are equal
   else
   output strings are not equal.

9. Stop.

Flowchart

```
                    ( Start )
                       |
                       v
    / input string1[50], string2[50]  /
    / *str1, *str2, int i, equal=0    /
                       |
                       v
    / input first, second string      /
                       |
                       v
    | str1 = string 1 |
    | str2 = string 2 |
                       |
                       v
                  / while    \
                 ( (*str1 > *str2) )
                  \          /
                       | true
                       v
                  /  if       \
                 ( (*str1 == '\0'|| )
                 (  *str2 == '\0'  )
                  \              /
                       | true
                       v
                   | Break |
                       |
                       v
                  | str1++ |
                  | str2++ |
                       |
                       v
                  /   if        \
   true          ( *str1 == '\0'  )   false
    <------------( && *str2        )------------>
    |            (   == '\0'       )             |
    v             \              /               v
| strings are |                          | strings are |
|   equal     |                          |  not equal  |
    |                                            |
    +---------------------+----------------------+
                          |
                          v
                      ( Stop )
```