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Input

```
america
suman
```

Output

```
suman
length of string1 is
7
length of string2 is
5
strings are different
```

```c
/* string comparision without built in function strcmp */
#include <stdio.h>
void main()
{
    char str1[20], str2[20];
    int len1, len2, i, temp=0;
    printf(" Enter string 1 \n");
    scanf("%c", str1);
    printf(" Enter string 2 \n");
    scanf("%s", str2);
    printf(" length of string1 is \n");
    for(i=0; str1[i] != '\0'; i++)
    {
        len1++;
    }
    printf("%d \n", len1);
```

```
for (i=0; str2[i] != '\0'; i++)
{
    len2++;
}
printf("%d\n", len2);
if (len1 != len2)
{
    printf("strings are different\n");
}
else
{
    for (i=0; str1[i] != '\0'; i++)
    {
        if (str1[i] == str2[i])
        {
            temp = 0;
        }
        else
        {
            temp = 1;
            break;
        }
    }
    if (temp == 0)
    printf("string is same");
    else
    printf("string is not same");
}
```

output
enter string 1
america
enter string 2
america
length of string 1 is
7
length of string 2 is
7
string is same.

/* without using built in function */

Algorithm -

Step1 : start

Step2 : Input str1[20], str2[20]

step3 : for(i=0; str1[i]!= '\0'; i++)
    {
      len1++;
    }

step4 : output len1

step5 : for(i=0; str2[i]!='\0'; i++)
    len2++

step6 - output len2

step7 - if(len1 != len2)

    output "strings are different"
  else

  { for(i=0; str1[i]!= '\0'; i++)
    temp=0 { if(str1[i] == str2[i])

    else
    temp=1
    break
  }

if (temp == 0)
output " string is same "
        else
output " string is not same "

Flowchart

```
                    ( Start )
                       |
                       v
         / Input str1[30] /
         / str2[30]       /

         < for (i=0; str1[i] !=\0 >
         <     i++)                >
                       |
                       v
             | len1=len1+1 |

         < for (i=0; str2[i] != \0 >
         <     i++)                >
                       |
                       v
             | len2=len2+1 |

         / output len1, /
         /        len2  /
                       |
                       v
   True          / if (       \      False
  <-----------  <   len1       >  ----------->
                  \  ==len2)  /
       |                                |
       v                                v
/ strings are /      < for (i=0; str1[i]!= >
/ different   /      <  \0 ; i++)          >
       |                           |
       |                           v
       |           True       / if (      \      False
       |          <---------  <  str1[i]    >  ------->
       |            |          \ == str2[i])/        |
       |            v                                v
       |        | temp=0 |                    | temp=1   |
       |            |                          | & break  |
       |            |                                |
       |            v                                v
       |       True        / if (temp \      False
       |      <---------   <   ==0)    >  ------->
       |         |          \         /       |
       |         v                            v
       |  / strings are /            / strings are /
       |  /    same     /            /  different  /
       |         |                          |
       +---------+--------------------------+
                       |
                       v
                    ( Stop )
```