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Output

```
length of string is 3
the reversed string is mom
string is palindrome
```

```
/* string reversing without built in function strrev()
and also it program to check whether string is
palindrome or not */
#include <stdio.h>
void main()
{
    char s1[20]="mam", s2[20];
    int i=0, j, temp=0;
```

```
for(i=0; s1[i]!='\0'; i++)
  {
    l++;
  }
 printf(" length of string is :%d\n", l);
  for(i=0; s1[i]!='\0'; i++)
{
   s2[i]=s1[l-i-1];
}
printf(" the reversed string is :%s\n", s2);
   for(i=0;s1[i]!='\0'; i++)
  {
     if(s1[i]!=s2[i])
    {
          temp=1;
          break;
      }
      else
     {
        temp=0;
      }
   }
    if(temp==1)
  {
     printf(" string is not palindrome");
   }
   else
  {
   printf(" string is palindrome");
  }
}
```

output -

length of string is 3
the reversed string is mom
string is palindrome

/* without using built in function */

Algorithm -

Step1 - start

Step2 - Input s1[20]

Step3 - for(i=0; s1[i] != '\0'; i++)

{

l1 = l1+1

}

Step4 - output l1

Step5 - for(i=0; s1[i] != '\0'; i++)

{ s2[i] = s1[l1-i-1]

}

step6 - output s2

step1 - for (i=0 ; s1[i] != '\0' ; i++)
{
if (s1[i] != s2[i])
{
temp = 1
break
}
else
{ temp = 0
}
}

step7 - if (temp == 1
output "string is not palindrome"
else
output " string is palindrome"

Flowchart