

Program 3

String Palindrome

1. START
2. Input string s
3. Take the total length. of s
4. Check 1st and the last element simultaneously and increase & decrease the counter respectively using a loop
5. Display the output.
6. STOP

Algorithm for main

1. START
2. Input String s
3. Pass the string s to Palindrome function
4. STOP.

```

#include <stdio.h>

//palindrome
void stringpal(char s1[]){
    int i=0,c=0,j;
    while(s1[i+1]!='\0'){
        ++i;
    }
    --i;
    for(j=0;j<i;j++,i--){
        if(s1[i]!=s1[j]){
            c=1;break;
        }
    }
    if(c==0)
        printf("You have got a palindrome string;\n");
    else
        printf("Not a palindrome string;\n");
}
int main(){
    //input
    printf("\nPress 0 to exit or type in the next string you want to test\n");
    printf("\nString 1: ");
    int ans=1;
    while(ans!=0){
        char s1[50];
        fgets(s1,50,stdin);
        //string palindrome
        stringpal(s1);
        scanf("%d",&ans);
    }
}

```

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Files

main.c

main.c

```
main.c
1 //...
2 ++i;
3 }
4 i--;
5 for(j=0; j<i; j++,i--){
6     if(s1[i]!=s1[j]){
7         c=1;
8         break;
9     }
10 }
11 if(c==0)
12     printf("You have got a palindrome string;\n");
13 else
14     printf("Not a palindrome string;\n");
15 }
16
17 int main(){
18     //input
19     printf("\nPress 0 to exit or type in the next string you
20     want to test\n");
21     printf("\nString 1: ");
22     int ans=1;
23     while(ans!=0){
24         char s1[50];
25         fgets(s1,50,stdin);
26         // string palindrome
27         stringpal(s1);
28         scanf("%d",&ans);
29     }
30 }
```

```
clang-7 -pthread -lm -o main main.c
./main

Press 0 to exit or type in the next string you want to test

String 1: joel
Not a palindrome string;
nickson
Not a palindrome string;
hello
Not a palindrome string;
malayalam
You have got a palindrome string;
aaa
You have got a palindrome string;
aaaa
You have got a palindrome string;
wow
You have got a palindrome string;
0

```

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