Program 3

String Palindrome

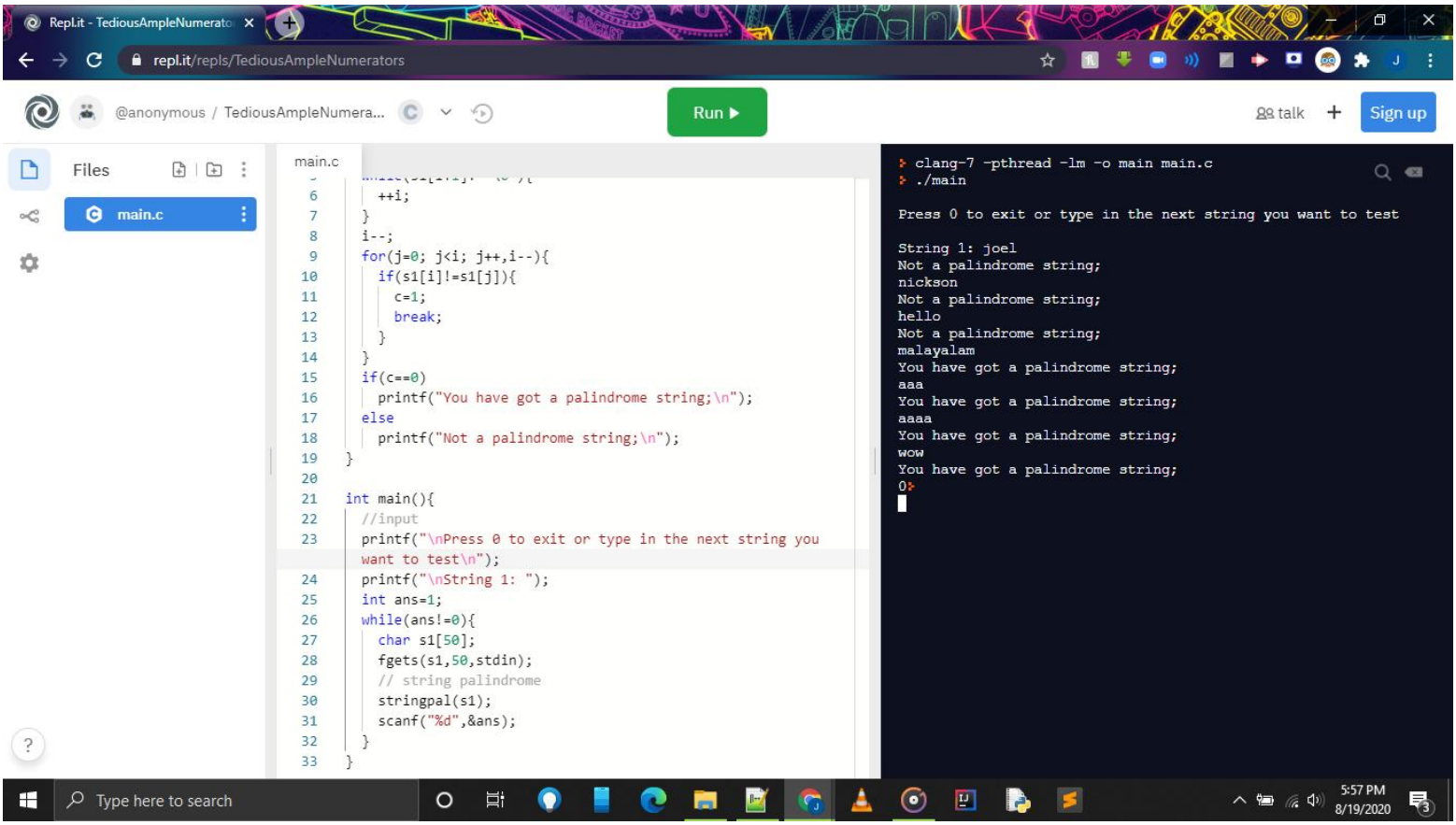
1. START
2. Input string s
3. Take the total length of s
4. Check 1st and the last element simultaneous and increase & decrease the counter respectively using a loop
5. Display the output.
6. STOP

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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@anonymous / TediousAmpleNumera...
Run
talk
Sign up
Files
main.c
++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);
}
}
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
Type here to search
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