GANAVI HALIGCS037

Program to find whether string is palindrome or not.

Algorithm

step1: Start

step2: Initialize length = 0, flag = 0

step3: Read string

step4: for(i=0; string[i] != '\0'; i++)
length++

step5: Display output string length

step6: for(i = length-1; i >= 0; i--)
reverse_string[length-i-1] = string[i]

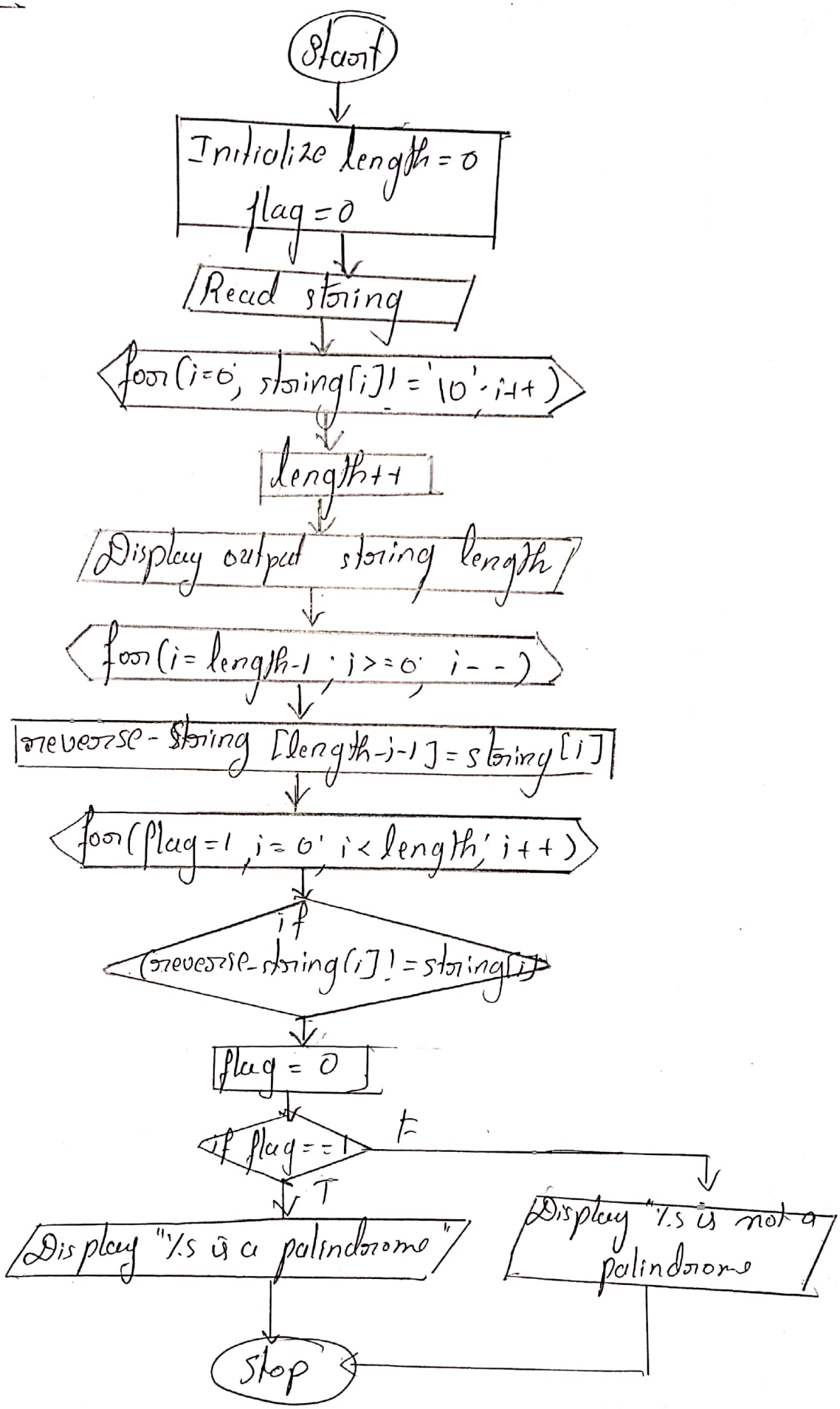
step7: for(flag=1, i=0; i<length; i++)
if(reverse_string[i] != string[i])
flag = 0

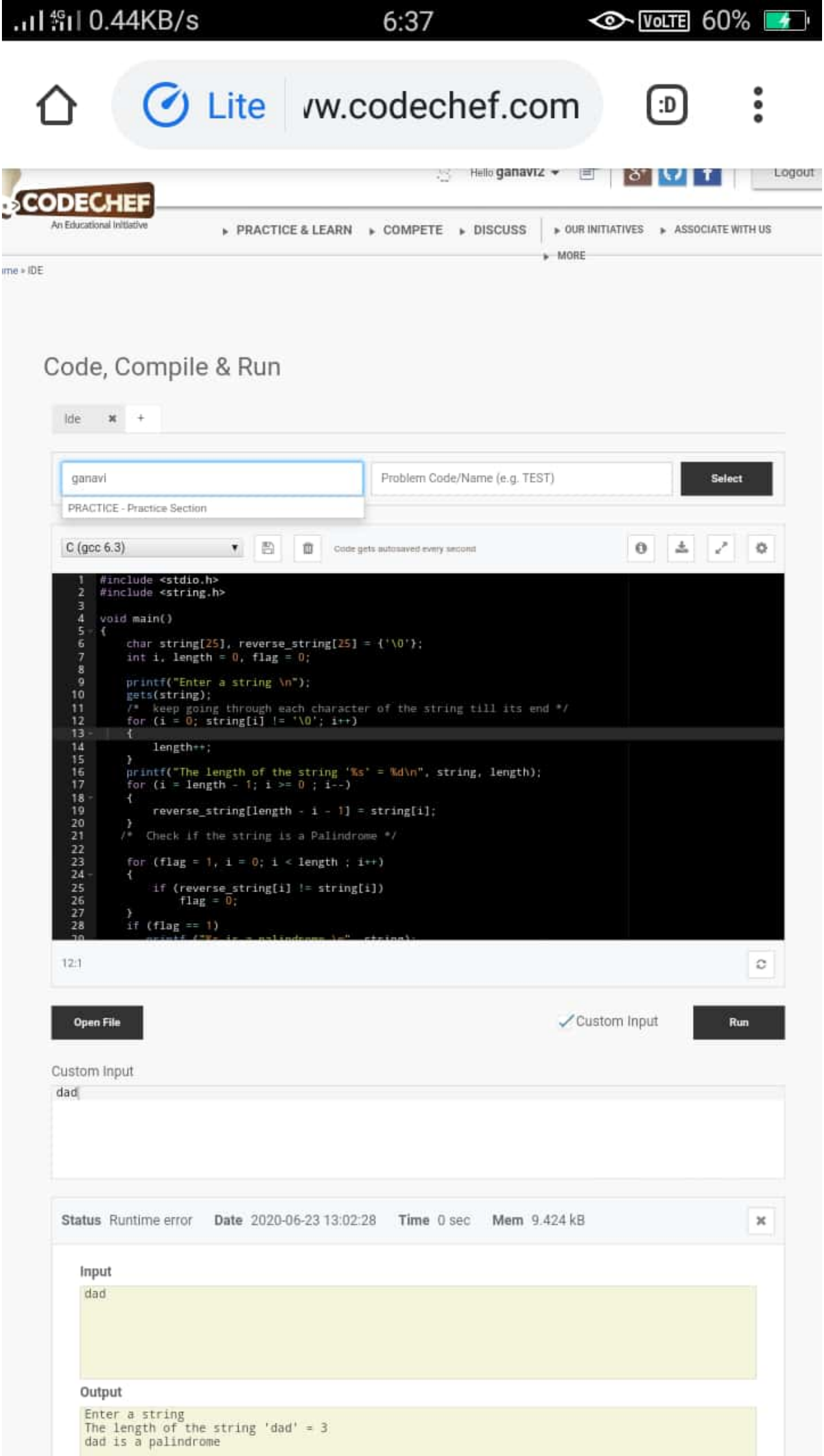
step8: if(~~reverse_string[i] != string[i]~~)(flag == 1) become false
Display "%s is a palindrome". goto step 9
goto step 10

step9: else
Display "%s is not a palindrome"

step10: Stop

Flowchart


Start
Initialize length = 0
flag = 0
Read string
for(i=0; string[i] != '\0'; i++)
length++
Display output string length
for(i = length-1 ; i>=0; i--)
reverse-string [length-i-1] = string[i]
for(flag=1, i=0; i<length; i++)
if (reverse_string[i] != string[i])
flag = 0
if flag == 1
T
F
Display "%s is a palindrome"
Display "%s is not a palindrome
Stop


0.44KB/s
6:37
60%
Lite
ww.codechef.com
Hello ganavi2
Logout
CODECHEF
An Educational Initiative
PRACTICE & LEARN
COMPETE
DISCUSS
OUR INITIATIVES
ASSOCIATE WITH US
MORE
Code, Compile & Run
Ide
ganavi
Problem Code/Name (e.g. TEST)
Select
PRACTICE - Practice Section
C (gcc 6.3)
Code gets autosaved every second
#include <stdio.h>
#include <string.h>
void main()
{
char string[25], reverse_string[25] = {'\0'};
int i, length = 0, flag = 0;
printf("Enter a string \n");
gets(string);
/* keep going through each character of the string till its end */
for (i = 0; string[i] != '\0'; i++)
{
length++;
}
printf("The length of the string '%s' = %d\n", string, length);
for (i = length - 1; i >= 0 ; i--)
{
reverse_string[length - i - 1] = string[i];
}
/* Check if the string is a Palindrome */
for (flag = 1, i = 0; i < length ; i++)
{
if (reverse_string[i] != string[i])
flag = 0;
}
if (flag == 1)
12:1
Open File
Custom Input
Run
Custom Input
dad
Status Runtime error
Date 2020-06-23 13:02:28
Time 0 sec
Mem 9.424 kB
Input
dad
Output
Enter a string
The length of the string 'dad' = 3
dad is a palindrome