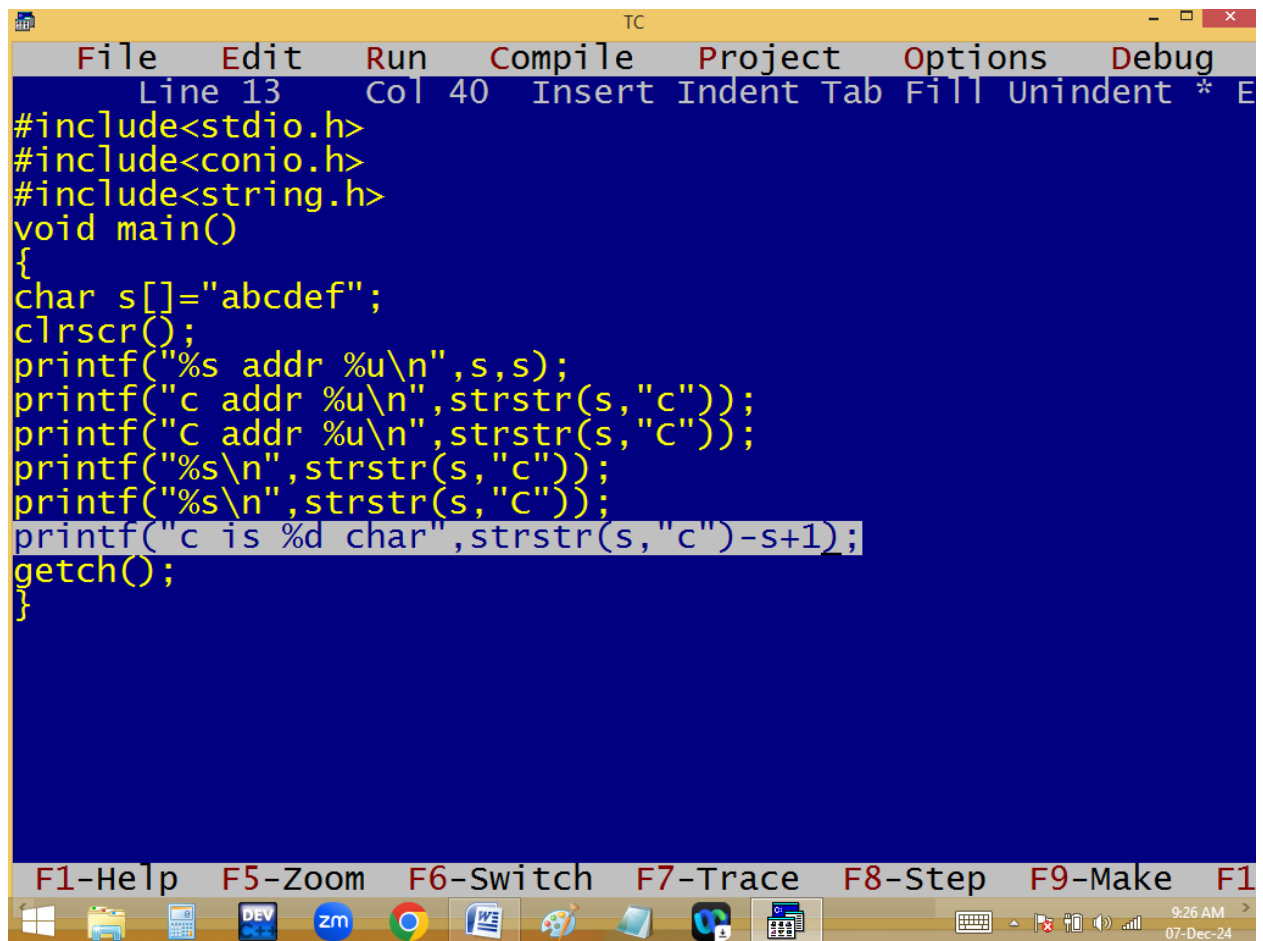


strstr(): It searches for the sub string and if found, it return the sub string address. If sub string not found, it return 0 / (null)

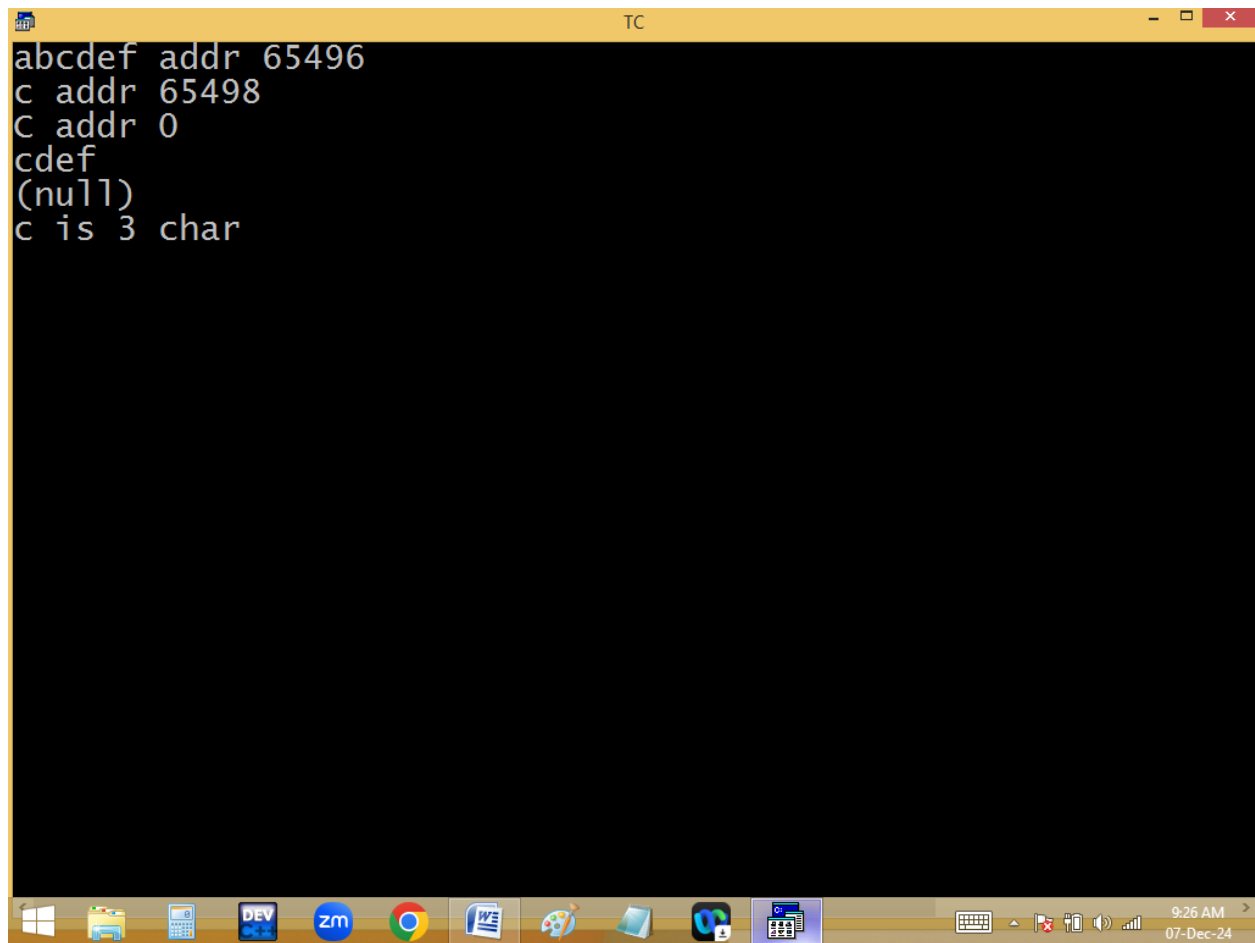
strstr(main string, sub string);



The image shows a screenshot of the Turbo C++ (TC) IDE. The window title is "TC". The menu bar includes "File", "Edit", "Run", "Compile", "Project", "Options", and "Debug". The status bar at the top indicates "Line 13", "Col 40", and "Insert Indent Tab Fill Unindent * E". The code in the editor is as follows:

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
char s[]="abcdef";
clrscr();
printf("%s addr %u\n",s,s);
printf("c addr %u\n",strstr(s,"c"));
printf("C addr %u\n",strstr(s,"C"));
printf("%s\n",strstr(s,"c"));
printf("%s\n",strstr(s,"C"));
printf("c is %d char",strstr(s,"c")-s+1);
getch();
}
```

The bottom of the IDE features a toolbar with function key shortcuts: "F1-Help", "F5-Zoom", "F6-Switch", "F7-Trace", "F8-Step", "F9-Make", and "F10-Run". The Windows taskbar at the bottom shows the Start button, taskbar icons for File Explorer, Calculator, DEV C++, Zoom, Google Chrome, Notepad, Paint, and VS Code, along with system tray icons for keyboard, volume, and network. The system clock shows "9:26 AM" and "07-Dec-24".

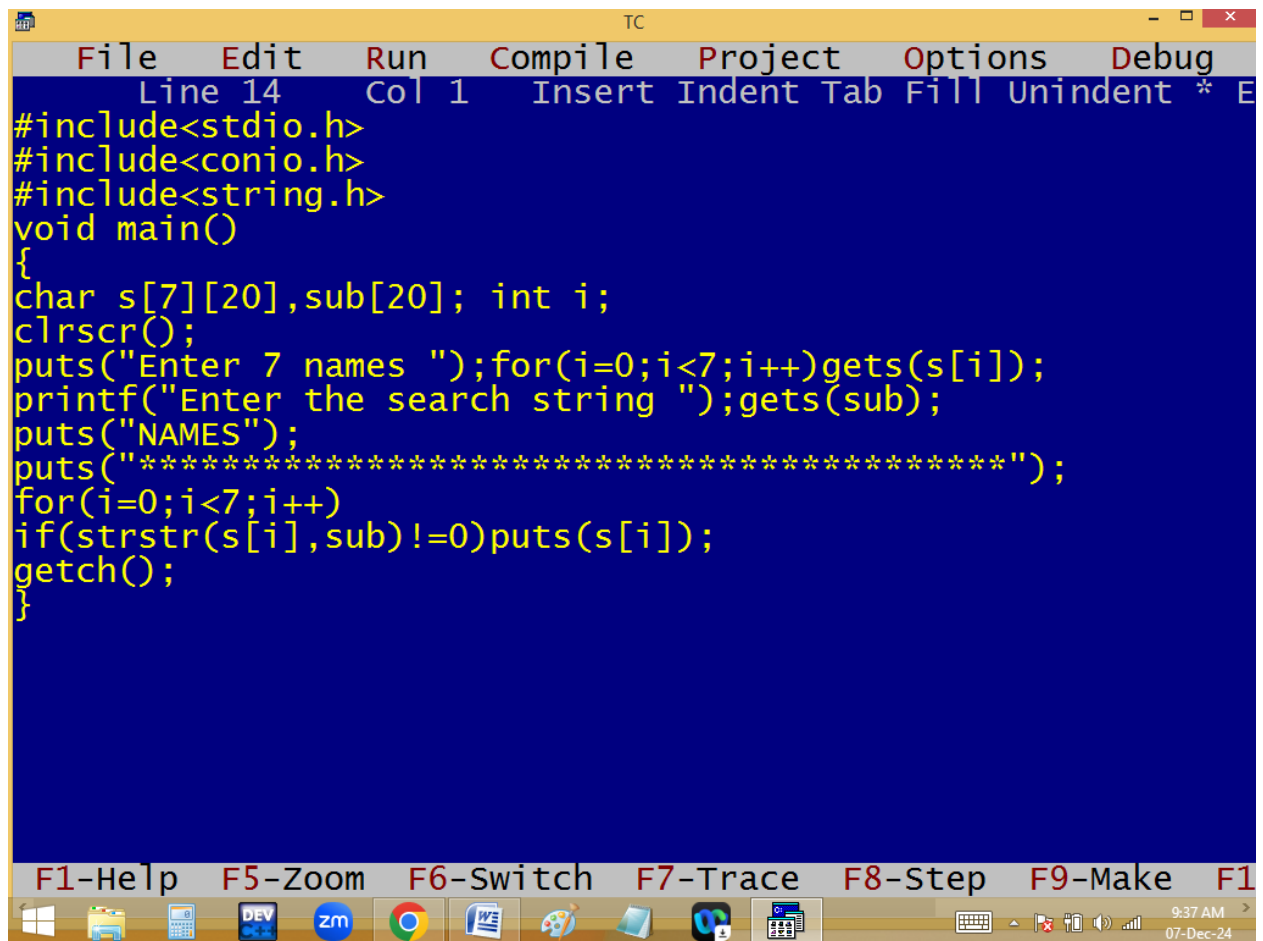


The image shows a screenshot of a Turbo C++ (TC) compiler window. The window has a yellow title bar with the text "TC" and standard window controls. The main area is black with white text. The text displayed is:

```
abcdef addr 65496  
c addr 65498  
C addr 0  
cdef  
(null)  
c is 3 char
```

The Windows taskbar is visible at the bottom, showing icons for Windows, File Explorer, Calculator, DEV, Zm, Chrome, Word, Paint, and other applications. The system clock in the bottom right corner shows "9:26 AM" and "07-Dec-24".

Browser working style:

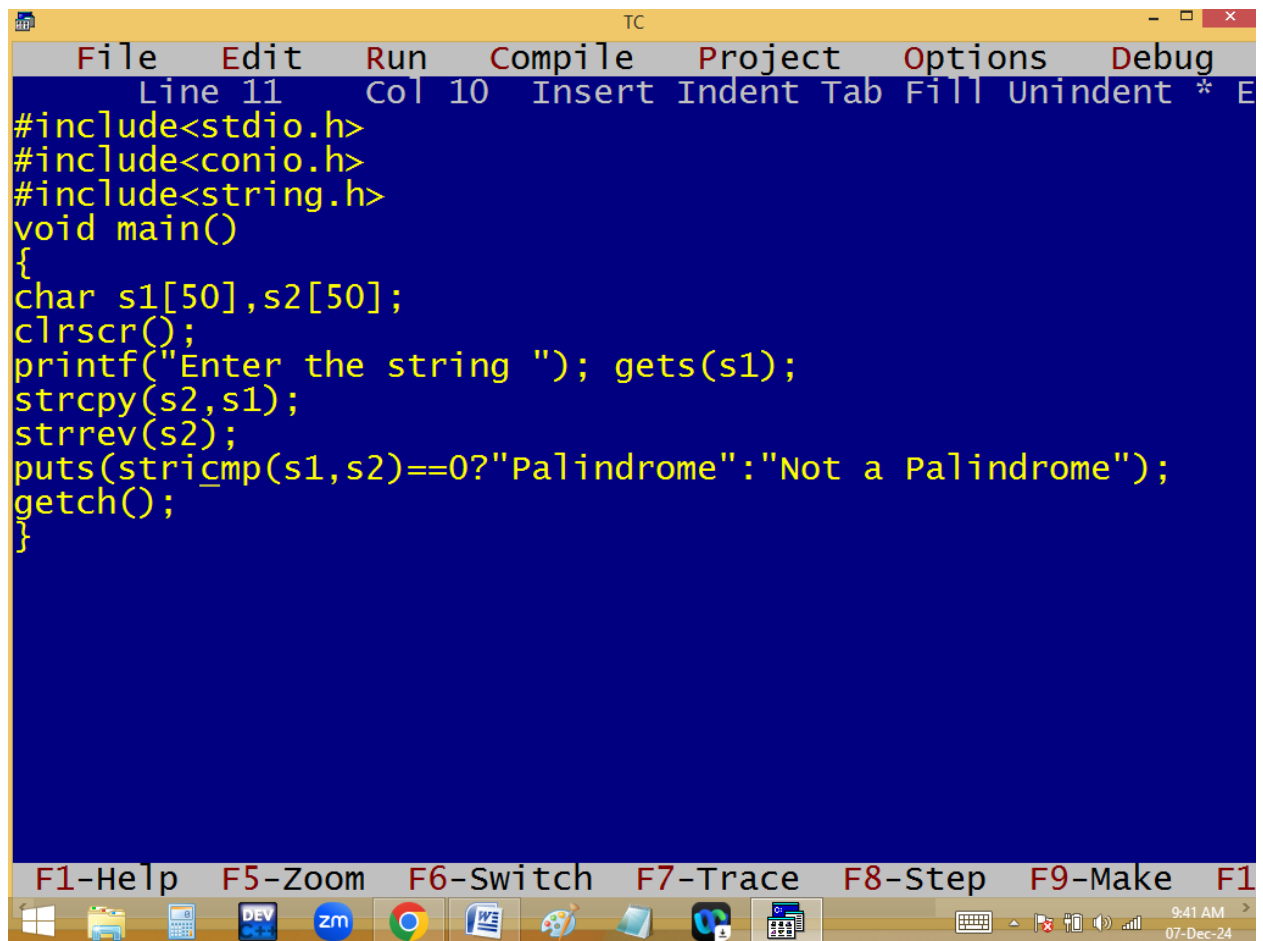


The image shows a screenshot of the Turbo C++ (TC) IDE. The window title is "TC". The menu bar includes "File", "Edit", "Run", "Compile", "Project", "Options", and "Debug". The status bar at the top indicates "Line 14", "Col 1", and "Insert Indent Tab Fill Unindent * E". The code is written in yellow text on a blue background. It includes headers for `stdio.h`, `conio.h`, and `string.h`. The `main` function declares an array of 7 strings, each up to 20 characters long, and a search string of up to 20 characters. It prompts the user to enter 7 names and a search string, then prints the names and checks if the search string is found in any of them using `strstr`. The bottom status bar shows function key shortcuts: "F1-Help", "F5-Zoom", "F6-Switch", "F7-Trace", "F8-Step", "F9-Make", and "F10-Run". The Windows taskbar at the bottom shows various icons and the system clock indicating 9:37 AM on 07-Dec-24.

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
char s[7][20],sub[20]; int i;
clrscr();
puts("Enter 7 names ");for(i=0;i<7;i++)gets(s[i]);
printf("Enter the search string ");gets(sub);
puts("NAMES");
puts("*****");
for(i=0;i<7;i++)
if(strstr(s[i],sub)!=0)puts(s[i]);
getch();
}
```

```
TC
Enter 7 names
vijay krishna
anushka sharma
jhanvi kapoor
sharukh khan
salman khan
allu arjun
rashmika
Enter the search string sh
NAMES
*****
vijay krishna
anushka sharma
sharukh khan
rashmika
_
```

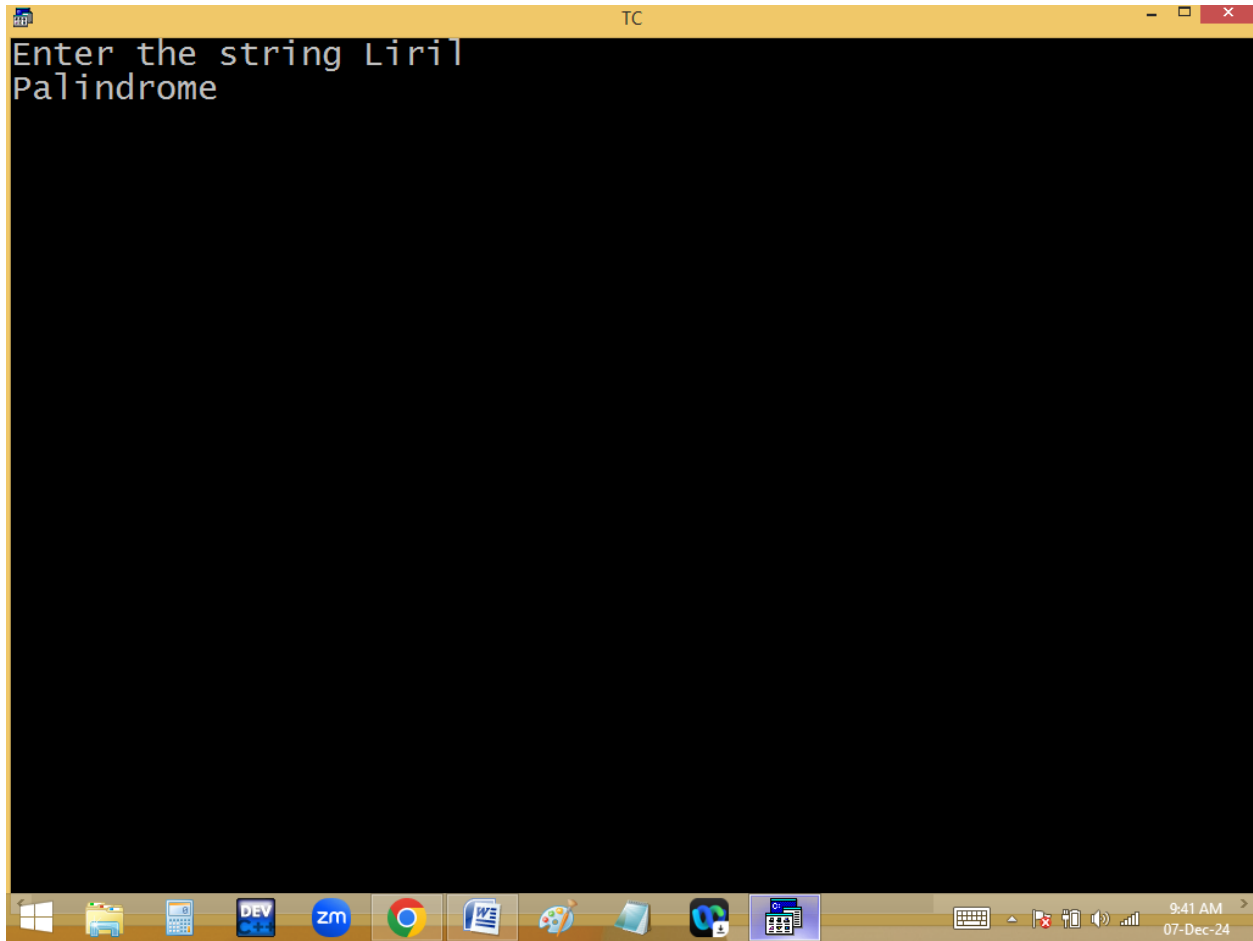
Finding palindrome using library functions?

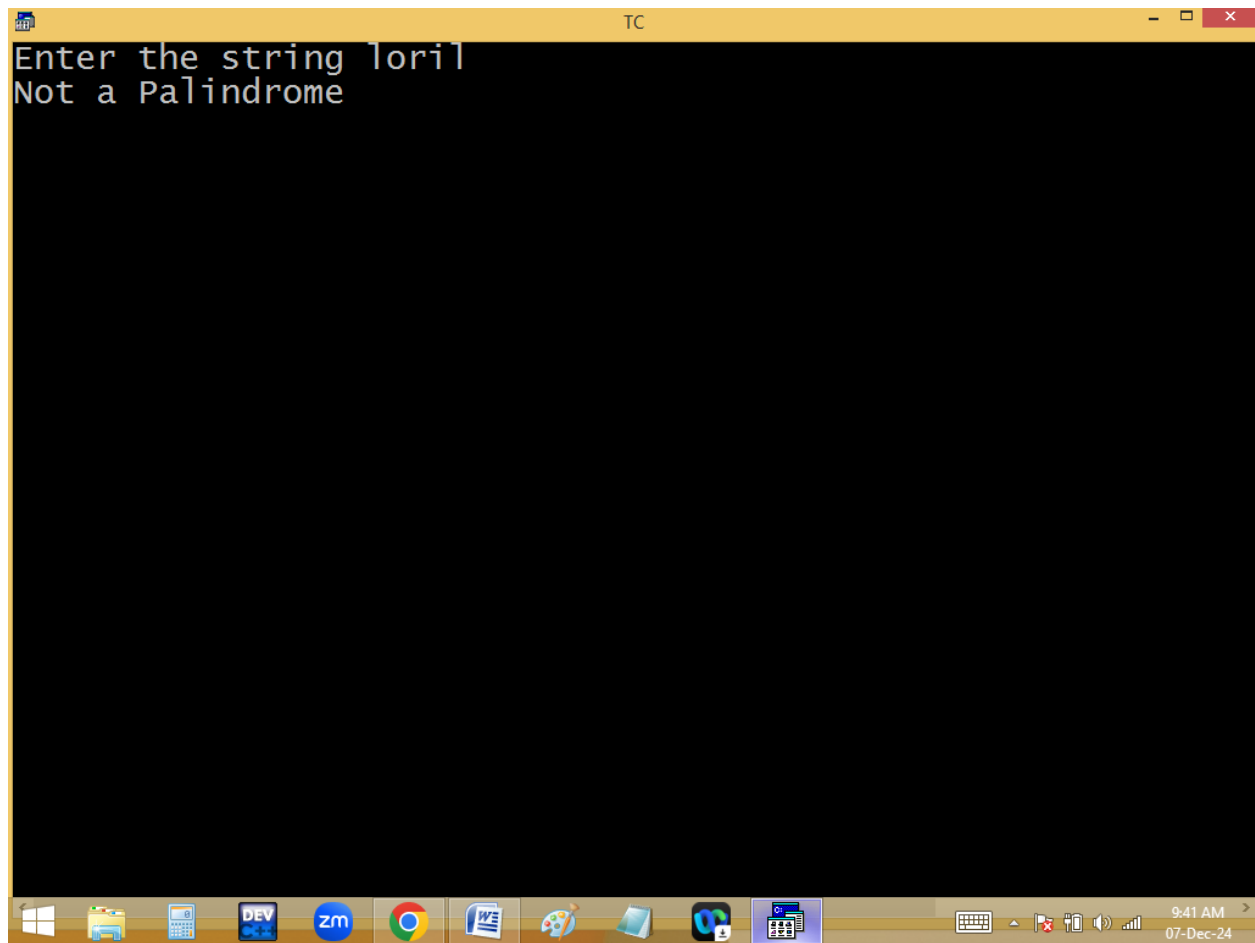


The image shows a screenshot of the Turbo C++ (TC) IDE. The window title is "TC". The menu bar includes "File", "Edit", "Run", "Compile", "Project", "Options", and "Debug". Below the menu bar, the status bar shows "Line 11", "Col 10", and "Insert Indent Tab Fill Unindent * E". The main editing area has a blue background and contains the following C code:

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
char s1[50],s2[50];
clrscr();
printf("Enter the string "); gets(s1);
strcpy(s2,s1);
strrev(s2);
puts(stricmp(s1,s2)==0?"Palindrome":"Not a Palindrome");
getch();
}
```

At the bottom of the IDE window, there is a toolbar with function key shortcuts: "F1-Help", "F5-Zoom", "F6-Switch", "F7-Trace", "F8-Step", "F9-Make", and "F10-Run". Below the toolbar is the Windows taskbar, which includes icons for the Start button, File Explorer, Calculator, DEV C++, ZOOM, Google Chrome, Notepad, Paint, and the Turbo C++ application. The system tray on the right shows the time as "9:41 AM" and the date as "07-Dec-24".





Sorting of strings:

s[0]

~~rishi~~ ~~chintu~~ chinna

s[1]

~~chintu~~ ~~rishi~~ ~~pinky~~ chintu

s[2]

~~pinky~~ ~~rishi~~ pinky

s[3]

~~chinna~~ ~~chintu~~ ~~pinky~~ rishi

```
TC
File Edit Run Compile Project Options Debug
Line 13 Col 8 Insert Indent Tab Fill Unindent * E
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
char s[7][50],t[50]; int i,j;
clrscr();
printf("Enter 7 strings\n");for(i=0;i<7;i++)gets(s[i]);
for(i=0;i<=5;i++)
{
for(j=i+1;j<=6;j++)
{
if(stricmp(s[i],s[j])>0)
{strcpy(t,s[i]);strcpy(s[i],s[j]);strcpy(s[j],t);}
}
}
puts("NAMES");
puts("-----");
for(i=0;i<7;i++)puts(s[i]);
getch();
}
```

F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Run

9:59 AM
07-Dec-24

```
TC
Enter 7 strings
Hari
siri
giri
PUSHPA
aryan
Krish
bunny
NAMES
-----
aryan
bunny
giri
Hari
Krish
PUSHPA
siri
```

POINTERS

Pointer is a variable which stores the address of another variable of same type.

Pointer is a variable which stores the address of memory [byte] at runtime [**dynamic**]

It is a derived data type.

`int * p;` → int pointer variable

Advantages:

1. Dma – runtime mem alloc
2. Prevents wastage of memory
3. Performance is high
4. System software development
5. Data structures
6. Call by reference/address – sharing of local var from diff functions
7. Array/strings

8. File handling