

```
#include <stdio.h>
#include <string.h>
int main()
{
    char str1[100], tmp, str2[100];
    int i=0, l, j;
    printf("Enter the string: ");
    gets(str1);
    l = strlen(str1);
    j = l-1;
    while (i < l)
    {
        tmp = str1[j];
        str2[j] = str1[i];
        str2[i] = tmp;
        i++; j--;
    }
    str2[i] = '\0';
    printf("The reversed string is \n");
    puts(str2);
    if (strcmp(str1, str2) == 0)
        printf("The string is a palindrome");
    else
        printf("The string is not palindrome");
    return 0;
}
```