```c
#include <stdio.h>
#include <string.h>

int main()
{
    char straight[100], temp, rev[100];
    int i, j, len;

    printf("Please Enter any String :  ");
    gets(straight);
    printf("Your Original String is : %s", straight);
    strcpy(rev, straight);
    len = strlen(rev) - 1;

    for (i = 0; i < strlen(rev)/2; i++)
    {
      temp = rev[i];
      rev[i] = rev[len];
      rev[len--] = temp;
    }

    printf("\nString after Reversing = %s\n", rev);

    if (strcmp(straight, rev) == 0){
      printf("This string is a palindrome\n");
    }
    else {
      printf("The string is not a palindrome\n");
    }

    return 0;
}
```