

```

1  #include<stdio.h>
2  #include<string.h>
3  int top=-1;
4  char stack[30];
5  void push(char b)
6  {
7      top++;
8      stack[top]=b;
9  }
10 char pop(char word[])
11 {
12     return word[top--];
13 }
14 }
15 int main()
16 {
17     char word[30];
18     char newword[30];
19     int flag=0;
20     printf("enter the string \n");
21     scanf("%s",word);
22     int size=strlen(word);
23     for(int i=0;i<size;i++)
24         push(word[i]);
25     for(int i=0;i<size;i++)
26         newword[i]=pop(word);
27     for(int i=0;i<size;i++)
28     {
29         if(stack[i]==newword[i])
30             continue;
31         else{
32             flag=1;
33         }
34     }
35     if(flag==1)
36         printf("NON PALINDROME \n");
37     else
38         printf("PALINDROME \n");
39 }

```

```

30     continue;
31 }
32 else{
33     flag=1;
34     break;
35 }
36 }
37 if(flag==1)
38     printf("NON PALINDROME \n");
39 else
40     printf("PALINDROME \n");
41 }

```

input

```

enter the string
madam
PALINDROME

...Program finished with exit code 0
Press ENTER to exit console.

```