#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#define MAX 50

int top = -1, front = 0;

int stack[MAX];

void push(char);

void pop();

void main()

{

int i, choice;

char s[MAX], b;

printf("Enter the String\n");

scanf("%s", s);

for (i = 0;s[i] != '\0';i++)

{

b = s[i];

push(b);

}

for (i = 0;i < (strlen(s) / 2);i++)

{

if (stack[top] == stack[front])

{

pop();

front++;

}

else

{

printf("%s is not a palindrome\n", s);

break;

}

}

if ((strlen(s) / 2) == front)

printf("%s is palindrome\n", s);

front = 0;

top = -1;

}

void push(char a)

{

top++;

stack[top] = a;

}

void pop()

{

top--;

}