// C program to reverse a string using stack.

#include<stdio.h>

#include<string.h>

#define MAX 50

int top = -1;

char stack[MAX];

char push(char item)

{

if(top == (MAX-1))

printf("Stack Overflow\n");

else

stack[++top] =item;

}

char pop()

{

if(top == -1)

printf("Stack Underflow\n");

else

return stack[top--];

}

main()

{

char str[40];

int i;

printf("Enter the string : " );

gets(str);

for(i=0;i<strlen(str);i++)

push(str[i]);

for(i=0;i<strlen(str);i++)

str[i]=pop();

printf("The Reversed string is : ");

puts(str);

}

Output:

Enter the string: shyam

The reversed string is =mayhs