import java.util.\*;

class StringOperation Main{

public static void main(String args[]){

Scanner scn=new Scanner(System.in);

System.out.println("Enter the string to operate");

String input=scn.next();

System.out.println("Enter the choice");

int choice=scn.nextInt();

switch(choice){

case 1:

String str=input;

input=input+str;

System.out.println(input);

break;

case 2:

String dum="";

for(int i=0;i<input.length();i++){

if(i%2==0){

dum=dum+input.charAt(i);

}else{

dum=dum+'#';

}

}

input=dum;

break;

case 3:

String dummy="";

for(int i=0;i<input.length();i++){

char pos=input.charAt(i);

if(dummy.indexOf(pos)<0)

dummy+=pos;

}

input=dummy;

break;

case 4:

String dumm="";

for(int i=0;i<input.length();i++){

String word="";

if(i%2==0){

dumm=dumm+input.charAt(i);

}else if(i%2==1){

word+=input.charAt(i);

dumm=dumm+word.toUpperCase();

}

}

input=dumm;

break;

default:

System.out.println("invalid choice");

}

System.out.println(input);

}

}