import java.io.\*;

class Stringop

{

static String s;

Stringop ()

{

s="";

}

void encode()

{

int i;

int l = s.length();

String d ="";

for (i=0;i<l;i++)

{

char c = s.charAt(i);

if ((c>='A')&&(c<='X'))

{

c =(char)((int)c+2);

d= d +c;

}

else if (c == 'Y')

d= d+'A';

else if (c == 'Z')

d = d +'B';

else if ((c >='a')&&(c<='x'))

{

c =(char)((int)c +2);

d = d+c;

}

else if (c == 'y')

d = d+'a';

else if (c == 'z')

d = d +'b';

else

d=d +c;

}

s=d;

System.out.println(d);

}

void print()

{

int i;

String d ="";s =s+" ";int l =s.length();

for (i=0;i<l;i++)

{

char c = s.charAt(i);

if (c == ' ')

{

System.out.println(d);

d= "";

}

else

{

d = d +c;

}

}

}

public static void main()throws IOException

{

BufferedReader br = new BufferedReader (new InputStreamReader (System.in));

Stringop ob = new Stringop();

System.out.println ("Enter a text ");

s=br.readLine();

ob.encode();

ob.print();

}

}