Sample Test Case

Input

7

1

2

3

0

4

5

6

Output

True

Ex. No. : 5.10 **Date:**

Register No.: 230701363 **Name: THEEPAK PALANI KUMAR D**

Strictly increasing

Write a Python program to check if a given list is strictly increasing or not. Moreover, If removing only one element from the list results in a strictly increasing list, we still consider the list true
Input:
n : Number of elements
List1: List of values
Output
Print "True" if list is strictly increasing or decreasing else print "False"

Program:

```
a=int(input())
l=[]
for i in range(a):
    l.append(int(input()))
la=  sorted(l)
ld=sorted (l, reverse=True)
if l==la or l==ld:
    print(True)
else:
    f=0
    for i in range(len(l)):
        b=l.pop(i)
        l2a=sorted(l)
        l2d=sorted(l, reverse=True)
        if l==l2a or l==l2d:
            f=1
            break
        else:
            l.insert(i,b)
    if f==0:
        print(False)
    else:
        print(True)
```

06 - Strings in Python

For example:

Input Result
rec@123
3
3
1

Ex. No. : 6.1 **Date:**

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Count Chars

Write a python program to count all letters, digits, and special symbols respectively from a given string

Program:

```
a=input()
count1=0
count2=0
count3=0
for i in range(0,len(a)):
    if(a[i].isalpha()):
        count1=count1+1
    elif(a[i].isdigit()):
         count2=count2+1
    else:
        count3=count3+1
print(count1)
print(count2)
print(count3)
```

Sample Input 1
a2b4c6

Sample Output 1
aabbbbcccccc

Ex. No. : 6.2 **Date:**

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Decompress the String

Assume that the given string has enough memory. Don't use any extra space(IN-PLACE)

Program:

```
s = input()
b = ""
i = 0
while i < len(s):
    if s[i].isalpha():
        char = s[i]
        i += 1
        num = ""
        while i < len(s) and s[i].isdigit():
            num += s[i]
            i += 1
        b+= char * int(num)
    else:
        b+= s[i]
        i += 1
print(b)
```

Input Format:

The first line contains S1.
The second line contains S2.
The third line contains N.

Output Format:

The first line contains the N characters present in S1 which are also present in S2.

Boundary Conditions:

2 <= N <= 10
2 <= Length of S1, S2 <= 1000

Example Input/Output 1:

Input:

abcbde
cdefghbb
3

Output:

bcd

Note:

b occurs twice in common but must be printed only once.

Ex. No. : 6.3 **Date:**

Register No.: 230701363 **Name: THEEPAK PALANI KUMAR D**

First N Common Chars

Two string values S1, S2 are passed as the input. The program must print first N characters present in S1 which are also present in S2.

Program:

```
s=input()
p=""
for i in range (len(s)):
    if(s[i] not in p):
        p=p+s[i]
x=0
s1=input()
N=int(input())
for i in p:
    for j in s1:
        if(i==j) and (x<N):
            x=x+1
            print(i,end="")
            break
```

Sample Input 1
experience
enc

Sample Output 1
xpri

Ex. No. : 6.4 **Date:**

Register No.: 230701363 **Name: THEEPAK PALANI KUMAR D**

Remove Characters

Given two Strings s1 and s2, remove all the characters from s1 which is present in s2.

Constraints
1<= string length <= 200

Program:

```
a=input()
b=input()
c=list(a)
d=list(b)
e=[]
for i in range(len(c)):
    if(c[i] not in d):
        e.append(c[i])
s=""
for j in range(len(e)):
    s+=e[j]
print(s)
```