## Greatest Common Increasing Subsequence

#### https://vjudge.net/problem/zoj-2432

You are given two sequences of integer numbers. Write a program to determine their common increasing subsequence of maximal possible length.

#### Input

Each sequence is described with M - its length (1 <= M <= 500) and M integer numbers Ai ( $-2^31 <= Ai < 2^31$ ) - the sequence itself.

#### Output

On the first line of the output print L - the length of the greatest common increasing subsequence of both sequences. On the second line print the subsequence itself. If there are several possible answers, output any of them.

# This problem contains multiple test cases!

The first line of a multiple input is an integer N, then a blank line followed by N input blocks. Each input block is in the format indicated in the problem description. There is a blank line between input blocks.

The output format consists of N output blocks. There is a blank line between output blocks.

#### **Sample Input**

### **Sample Output**

214