Fun with Sequences

You are given a sorted sequence of n integers $S = s_1, s_2 \ldots s_n$ and a sorted sequence of m integers $Q = q_1, q_2 \ldots q_m$.

Please print in ascending order all such s_i that does not belong to Q.

Input data specification

In the first line you are given one integer $2 <= n <= 100$, and in the following line n integers: $-100 <= s_i <= 100$, $s_i <= s_{i+1}$.

In the third line you are given one integer $2 <= m <= 100$, and in the following line m integers: $-100 <= q_i <= 100$, $q_i <= q_{i+1}$.

Output data specification

The sequence of requested integers separated by spaces.

Example

Input:
5
-2 -1 0 1 4
6
-3 -2 -1 1 2 3

Output:
0 4