## Fun with Sequences (Act 4)

You are given $S$ - a sequence of $n$ integers $S=s_{1}, s_{2} \ldots s_{n}, Q$ - a sequence of $n$ integers $Q=q_{1}$, $q_{2} \ldots q_{n}$ and a nonnegative parameter $x$.

Please print in ascending order all such $i$, that $s_{i}=q_{i+y}$, where $-x<=y<=x$.

## Input data specification

In the first line you are given two integers $2<=n<=100,0<=x<n$ and in the following two lines $n$ integers in each of the line:
$-100<=s_{i}, q_{i}<=100$

## Output data specification

The sequence of requested integers separated by spaces.

## Example 1

Input:
52
-1 2-1 1-1
3-2-112
Output:
1345

## Example 2

Input:
64
-1 222 2-2
3-2 3 3-1
Output:
6

## Example 3

Input:
60
-1210126-2
2-2 1021 6-1
Output:
35

