Fun with Sequences (Act 4)

You are given S - a sequence of n integers $S = s_1, s_2, ..., s_n$, Q - a sequence of n integers $Q = q_1, q_2, ..., q_n$ and a nonnegative parameter x. Please, print in the 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:
5 2
-1 2 -1 1 -1
3 -2 -1 1 2

Output:
1 3 4 5

Example 2

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

Output:
6

Example 3

Input:
6 0
-1 2 10 12 6 -2
2 -2 10 21 6 -1

Output:
3 5