

# Fun with Sequences (Act 4)

You are given  $S$  - a sequence of  $n$  integers  $S = s_1, s_2 \dots s_n$ ,  $Q$  - a sequence of  $n$  integers  $Q = q_1, q_2 \dots q_n$  and a nonnegative parameter  $x$ .

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

## Input data specification

In the first line you are given two integers  $2 \leq n \leq 100$ ,  $0 \leq x < n$  and in the following two lines  $n$  integers in each of the line:

$-100 \leq s_i, q_i \leq 100$

## 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
```