**Problem A**

You need to find the index (0-based) of a given key in an array.

Input:

First line: n, a number. (1<=n<=10^5)

Next n lines: an integer v (-2147483648<=v <=2147483647)

Next line: m, a number (1<=m<=10^5), the number of keys.

Next m lines: an integer q (-2147483648<= q <=2147483647), the key to be searched for.

Output:

m lines, each containing the index of the keys. If element is not found print -1.

Sample Case:

| Input | Output |
| --- | --- |
| 5  -3  -4  2  6  7  3  -4  6  1 | 1  3  -1 |

**Problem B**

Input:

First line: n, a number (1<=n<=10).

Output:

Each line will contain a list of space-separated digits where,

* The list contains n digits.
* The digits in the list are 0-4 (inclusive)
* The odd indexed digit in the list is an odd digit
* The even indexed digit in the list is an even digit

The lists will be printed in sorted order. Example: {0, 1, 0} before {0, 1, 2}.

Sample Case:

| Input | Output |
| --- | --- |
| 2 | 0 1  0 3  2 1  2 3  4 1  4 3 |
| 3 | 0 1 0  0 1 2  0 1 4  0 3 0  0 3 2  0 3 4  2 1 0  2 1 2  2 1 4  2 3 0  2 3 2  2 3 4  4 1 0  4 1 2  4 1 4  4 3 0  4 3 2  4 3 4 |