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**Maximum consecutive subsequence****P94336\_en**

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Given a sequence of  $n$  integer numbers  $x_1 \dots x_n$ , and an integer number  $x$ , let  $L(x)$  be the maximum length of all the subsequences made up of only  $x$ . That is,  $L(x)$  is the maximum number of times that  $x$  appears consecutively in the sequence (or zero, if  $x$  is not there). Given several  $x$ , can you compute each  $L(x)$ ?

**Input**

Input consists of several cases. Every case begins with  $n$ , followed by  $x_1 \dots x_n$ , followed by a natural number  $q$ , followed by  $q$  different integer numbers  $x$  about which you are asked.

**Output**

For every case, print a line with the  $q$  answers  $L(x)$  separated with spaces.

**Sample input 1**

```
9  -10 30 30 -10 -10 -10 25 25 30
3  -10 20 30

10 1 1 -4 -4 -4 6 8 8 8 8
5  8 6 5 1 -4

15 7 7 7 7 7 7 7 7 7 7 7 7 7 7
2  7 8
```

**Sample output 1**

```
3 0 2
4 1 0 2 3
15 0
```

**Problem information**

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