Search in an array of strings

Cost: 6 | Solved: 141

Memory limit: 256 MBs

Time limit: 1 s

Input: input.txt

Output: output.txt

Task:

You are given an array of ***n*** strings sorted lexicographically.

You have to find out whether or not the string ***s*** exists within an array for every of ***m*** queries.

Input:

The first line contains a natural number ***n*** ($1 \le n \le 10^5$) – the quantity of elements of the array.

The second line contains ***n*** strings – the elements of the array.

The third line contains a natural ***m*** ($1 \le m \le 10^5$) – the quantity of number queries.

The next ***m*** lines contain a string ***s*** (the values of ***s*** on different lines can be the same).

Output:

m lines each containing the index of the string ***s*** if it exists within an array or "-1" if it doesn't.

Example:

Input	Output

9 BT EWC HSN IRDY QYUS TMQ U YOG ZE 4 ZE EWC ABC ZE	9 2 -1 9