

PEG Test '11 - Cyclopiian Census

Time limit: 1.0s **Memory limit:** 16M

PEG 11/12 Programming Test 1 - October 19

FurWear is running out of oxygen!

After an emergency meeting between the Oelfinn and FurWear, and the ingestion of Earth-imported beer, the Oelfinn have decided to contract FurWear to perform analysis on their most recent census data (which now includes Oelfinn living on other planets). The Oelfinn wish to find how old the i th youngest Oelfinn is.

Due to their abnormally long lifespans and quirky reproductive cycles, it is guaranteed that no two Oelfinn will be the same age.

Input Specification

The first line consists of a single integer N ($1 < N \leq 60\,000$), the number of live Oelfinn. The following N lines each contain a single integer a_i ($10 \leq a_i \leq 1\,000\,000$), the age of the i th Oelfinn (in millennia). The next line consists of a single integer Q ($1 \leq Q \leq 100$), the number of queries to follow. The following Q lines each contain a single integer q_i ($1 \leq q_i \leq N$), the i th query.

Output Specification

Output the correct answer to each query in the order given, on separate lines.

Sample Input

```
10
42
23
15
52
63
24
73
54
66
10
3
1
5
10
```

Sample Output

10
42
73