

Who will win Jorina's heart ?



Jorina is the most beautiful girl in NSTU. As a result, Most of the boys want to impress her. Every boy has a love quantity Q which indicates how much the boy loves Jorina . Jorina would choose the boys as her partners who have the maximum love quantity. So every boy wants to know the number of boys who have more love quantity Q than him .

Input : The first line contains an integer n , the number of boys. Then the next line contains n space separated integers indicating the value of love quantity Q of each boy. The next line contains an integer q , the queries. In each query , there is an integer M denoting a love quantity of a boy.

Output : For each query q , print a line containing the number of boys who have more love quantity than M .

Input Format

```
5
-10 4 5 0 1
3
4
1
-10
```

Constraints

1. $1 \leq n \leq 100000$
2. $1 \leq q \leq 100000$
3. $-100000 \leq M, Q \leq 100000$

Output Format

1

2

4

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