

## Minimum and Maximum

### Description :

You will be given an array A of length N. there will Q queries. Each query contains one index I (1-indexed), for each I you've to print maximum and minimum in array range 1 to I.

### Constraint :

All numbers will be positive integer.

### Input :

first-line contains N - length of array  
second-line contains N integers space separated  
third-line contains Q - number of queries  
fourth-line contains Q integers representing Index I for each query.

### Output :

Q lines, each line contains a and b which represents minimum and maximum in range 1 to I.

### Example :

#### Input:

```
20
11 14 15 18 16 17 12 14 11 3 2 10 13 10 1 17 20 15 9 17
6
10 3 8 17 14 20
```

#### Output:

```
3 18
11 15
11 18
1 20
2 18
1 20
```