Lost Guy Radhu

| Problem Code: **MAY19F1**

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Far away in Lonely lands of Sahoo village there lived mathematically advanced guy. Let's call him the lost guy because he remains lost in his Mathematical courses.

One of the games he is playing is "Dab the Tab". This game is so addictive that he isn't doing anything else and played this game N times in a single day, getting a score of A_i in the i-th game. After every game, the Maximum Score among all games played till now, is displayed.

Next day, he was bored at work, and was thinking about the gaming session the previous day. In particular, he had Q thoughts, where each thought involves wondering what Maximum Score was displayed after the i-th game. He wants you to help him resolve these thoughts. That is, he has Q questions, where each question consists of a single integer q_i. For this, you should tell him what the Maximum Score was, after the q_i game.

Input:

- First line will contain T, number of testcases. Then the testcases follow.
- Each testcase begins with two integers, N and Q, denoting the number of games played and the number of queries.
- Next Line contains N integers: $A_1, A_2, \dots, A_N$, the scores in the N games playes.
- Next Line contains Q integers, $q_1 q_2 \dots q_Q$, where q_i denotes the i-th query.

Output:

For each query, print the Maximum Score in a new line

Constraints

- $1 \leq T \leq 10$
- $1 \leq N, Q \leq 10^5$
- $0 \leq A_i \leq MX$
- $1 \leq q_i \leq N$

Subtasks

- **Subtask 1 (15% points):** $N \leq 100, Q \leq 10^4$ **and** $MX = 1000$
- **Subtask 2 (20% points):** $N \leq 1000, Q \leq 10^5$ **and** $MX = 10^9$
- **Subtask 3 (65% points):** $N \leq 10^5, Q \leq 10^5$ **and** $MX = 10^9$.

Sample Input:

```
1
5 3
5 4 8 6 9
2 3 5
```

Sample Output:

```
5
8
9
```

EXPLANATION:

- For first thought, maximum score is $max(5, 4) = 5$.
- For second thought, maximum score is $max(5, 4, 8) = 8$.

Author:	taran_adm
Date Added:	12-05-2019
Time Limit:	2 secs
Source Limit:	50000 Bytes
Languages:	PYTH 3.6, JAVA, C, CPP14, PYTH, PYP3, CS2, ADA, PYPY, TEXT, PAS fpc, NODEJS, RUBY, PHP, GO, HASK, TCL, kotlin, PERL, SCALA, LUA, BASH, JS, rust, LISP sbcl, PAS gpc, BF, CLOJ, R, D, CAML, swift, FORT, ASM, FS, WSPC, LISP clisp, SCM guile, PERL6, ERL, CLPS, PRLG, ICK, NICE, ICON, COB, SCM chicken, PIKE, SCM qobi, ST, NEM

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