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03 : 17 : 01 : 42
DAY   HRS   MIN   SEC

January Circuits '17

LIVE

Jan 20, 2017, 09:00 PM IST - Jan 28, 2017, 09:00 PM IST

INSTRUCTIONS   PROBLEMS   SUBMISSIONS   LEADERBOARD   ANALYTICS   JUDGE

5

LIVE EVENTS

← Problems / Transaction

Transaction

Max. Marks: 100

BOB (Bank of Byteland) is the only bank in the land of byteland. Hence million of transactions take place every day. You are currently the manager in charge of BOB. Being bored one day you took all the transaction of that day and asked your friend Codemonk to ask Q queries on the data . Codemonk being a exceptionally good coder gave you two numbers M and N. He then asks you to tell him N^{th} transaction having cost more than or equal to M maintaining the order of transaction if it exist else print -1. Can you answer all of his queries.

Input

First line of input contains T and Q i.e number of transaction and number of queries.
Next line contains T intergers representing cost of each transaction.
Next Q lines contains two integers representing M and N.

Output

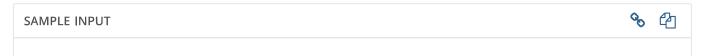For each query print the cost of required transaction if it exists else print -1.
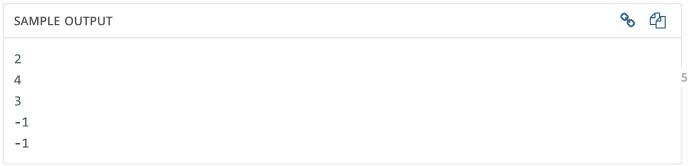
Constraints

$1 <= T <= 100000$

$1 <= Q <= 100000$

$1 <= Cost\ of\ each\ transaction <= 100000$

$1 <= M, N <= 100000$

SAMPLE INPUT	🔗 🗐

```
5 5
1 2 3 4 5
1 2
2 3
3 1
3 4
4 8
```

SAMPLE OUTPUT

```
2
4
3
-1
-1
```

Explanation

Cost of transactions are {1,2,3,4,5}

1st Query {1,2} :- 2nd number greater than equal to 1 is 2.

2nd Query {2,3} :- 3rd number greater than equal to 2 is 4.

3rd Query {3,1} :- 1st number greater than equal to 3 is 3.

4th Query {3,4} :- Since there are only three numbers greater than equal to 3 hence -1.

5th Query {4,8} :- Since there are only two numbers greater than equal to 4 hence -1.

Time Limit:	1.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Marks are awarded if any testcase passes.
Allowed Languages:	C, C++, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, JavaScript(Rhino), JavaScript(Node.js), Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Visual Basic

CODE EDITOR

Enter your code or Upload your code as file.   Save   C (gcc 4.8.4)   ▼   ⚙

```
1   #include <stdio.h>
```

```
2
3   int main()
4   {
5       printf("Hello World!\n");
6       return 0;
7   }
8
```

5

LIVE EVENTS

1:1

🔽 Provide custom input

COMPILE & TEST   SUBMIT

💡 *Press Ctrl-space for autocomplete suggestions.*   POWERED BY code table

🖋 **Tip:** You can submit any number of times you want. Your best submission is considered for computing total score.

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                                                                        Open Source

EMPLOYERS   ## REACH US

Developer Sourcing   Ground Floor, Salarpuria Business Center,

Lateral Hiring   4th B Cross Road, 5th A Block,

Campus Hiring   Koramangala Industrial Layout,

Hackathons   Bangalore, Karnataka 560095, India.

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