Binary search in Java → Find array elements in another array

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Hard 12 minutes Share:

Code Challenge — Write a program

The first line contains integer $1 \leq n \leq 10^5$. The second one contains of an array $A[1 \ldots n]$ of n various natural numbers, not exceeding 10^9, in ascending order.

The third line contains integer $1 \leq k \leq 10^5$. The fourth one consists of k natural numbers $b_1, \ldots, b_k$, not exceeding 10^9.

For each i from 1 to k it is necessary to output index $1 \leq j \leq n$, for which $A[j] = b_i$, or -1, if there is no such j.

Sample Input 1:

```
5
1 5 8 12 13
5
8 1 23 1 11
```

Sample Output 1:

```
3 1 -1 1 -1
```

Code Editor IDE

Solve in IDE

IDE is opened

If you don't see your IDE opened, switch to it manually

Skip problem

Time limit: 2 seconds Memory limit: 256 MB

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Share something, Sergey Kubatko

Post Please do not post solutions here

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KP **Konstantin Proskurnya** 22 days ago Report

Did Donald Knuth write that description?
I'll translate it in to human language - you have two arrays, and sizes of them, you need to find every element of the second array in the first array and return it index or -1 if it hasn't.

♡ 0 Reply

C **Camel_Case** 3 months ago Report

I passed test 1, but failed test 2, I'm lost, halp lol.

♡ 0 Reply

C **Camel_Case** 3 months ago Report

Software development is about making life easier for humans by putting everything into human readable code and documentation. When a question is written in pure math constructs with little to no explanation, it kinda defeats the purpose of programming. This question, as it stands, is very unclear as to what it wants us to do, hence less than 100 people have solved this problem.

♡ 1 Reply

G **Gurhan** 6 months ago Report

I implemented binary search but it didn't pass the time limit so used the Arrays.binarySearch and succeded, the reference solution is recursive my own was iterative. Does that matter in time?

♡ 0 Reply

AY **Alexey Yermolin** 6 months ago Report

Tom Weston,
you should use binary search.

♡ 0 Reply

TW **Tom W** 6 months ago Report

Any hints on how to solve this one? I keep getting "Failed test #3. Time limit exceeded", even though I'm using a hash map for repeated lookups. Can't skip the problem either :(

♡ 0 Reply