

<https://panchalprogrammingacademy.github.io/course-problem-deck/#!/problem/60125e436cbcd50015ee5ecf>

Linear Search

75 POINTS

Write a program to find a key in a given array.

Input format:

First line of input contains an integer N denoting the size of the array.

Second line of input contains N space separated integers denoting the elements of the array

Third line of input contains an integer denoting the key to be searched in the array.

Output format:

A single line of integer denoting the 0-based index of first occurrence of the key in the array. If it does not exist then print -1.

Constraints:

$$1. 0 \leq N \leq 10^5$$

$$2. 0 \leq array[i] \leq 10^9$$

Test Case - 1

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

Test Case - 2

```
10
29 0 4 87 45 13 83 67 54 90
54
8
```

Test Case - 3

```
10
29 0 4 87 45 13 83 67 54 90
100
-1
```

Test Case - 4

```
10
29 0 4 87 45 13 45 67 54 90
45
4
```

Problem tags:

