

Search an Element in an Array !!

Problem Statement

Lucas is learning how to search for specific data within a collection of numbers. He has an array of integers and wants to check whether a **given number (key)** exists in the array or not.

Your task is to help Lucas write a program that **reads N integers into an array** and **searches for a specific element (key)** entered by the user. If the element is found, print "*Element found at position X*" (1-based index). If not found, print "*Element not found*".

Input Format

- The first line contains an integer N, representing the number of elements in the array.
- The second line contains N space-separated integers, representing the elements of the array.
- The third line contains an integer key, representing the element to search for.

Constraints

- $1 \leq N \leq 100$
 - $-10^5 \leq \text{Array Element} \leq 10^5$
 - $-10^5 \leq \text{key} \leq 10^5$

Output Format

- Print the position (1-based index) of the key if found.
- If the key is not found, print "Element not found".

Sample Input 0

```
5
10 20 30 40 50
20
```

Sample Output 0

```
Element found at position 2
```