import java.util.Scanner;

public class LinearSearch {

public static void main(String[] args){

int[] arr = {10,20,30,40,50};

Scanner sc = new Scanner(System.in);

System.out.println("Enter the element to be searched");

int searchValue = sc.nextInt();

int result = (int) linearing(arr,searchValue);

if(result==-1){

System.out.println("Element not in the array");

} else {

System.out.println("Element found at "+result+" and the search key is "+arr[result]);

}

}

public static int linearing(int arr[], int x) {

int arrlength = arr.length;

for (int i = 0; i < arrlength - 1; i++) {

if (arr[i] == x) {

return i;

}

}

return -1;

}

}