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//On 7th Nov 2021
//Linear Search
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/*Linear search is a searching technique in which it sequentially checks each element of the list for the target value until a match is found (or) until all the elements have been searched.*/

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#include<stdio.h>
void main() {
    int a[20], i, n, key, flag = 0, pos;
    printf("Enter value of n : ");
    scanf("%d", &n);
    // Write code to read array elements
    for(i=0;i<n;i++){
        printf("Enter element for a[%d] : ",i);
        scanf("%d",&a[i]);
    }

    printf("Enter key element : ");
    scanf("%d", &key);
    // Write code for linear search process
    printf("\n");
    for(i=0;i<n;i++){
        if(key==a[i]){
            flag=1;
            pos=i;
            break;
        }
    }

    if (flag==1) { //Write the condition part
        printf("The key element %d is found at the position %d\n", key,pos); //Complete the statement
    } else {
        printf("The key element %d is not found in the array\n", key); //Complete the statement
    }
}
```