

Linear Search

```
#include <stdio.h>

void main()
{
    int a[20],n,key,pos,flag=0;
    printf("Enter number of elements in array: ");
    scanf("%d",&n);
    printf("Enter elements of array: ");
    for (int i=0;i<n;i++) {
        scanf("%d",&a[i]);
    }
    printf("Enter key to linear search: ");
    scanf("%d",&key);
    for (int i=0;i<n;i++) {
        if (a[i]==key) {
            pos=i;
            flag=1;
        }
    }
    if (flag==0)
        printf("key not found");
    else
        printf ("key %d is found at index: %d\n",key,pos);
}
```