

```

#include<stdio.h>

int main()
{
    int a[20],n,low,high,mid,key,i,flag=0;

    printf("Enter the value of n:\n");
    scanf("%d",&n);

    if(n>0)
    {
        printf("Enter %d elements in ASCENDING order\n",n);

        for(i=0;i<n;i++)
            scanf("%d",&a[i]);

        printf("Enter the key element to be searched\n");
        scanf("%d",&key);

        low=0;
        high=n-1;

        while(low<=high)
        {
            mid=(low+high)/2;

            if(a[mid] == key)
            {
                flag=1;
                break;
            }

            else if(a[mid]<key)
                low=mid+1;

            else
                high=mid-1;
        }

        if(flag == 1)
            printf("Element found at Location %d\n",mid+1);
        else
            printf("Key Element not found\n");
    }
    else
        printf("Wrong input");
    return 0;
}

```