```c
#include<stdio.h>
void main()
{
int i,n,a[10],high,low,mid,item,found;
printf("Enter how many elements you want in array:\n");
scanf("%d",&n);
printf("Enter sorted elements in array:\n");
for(i=0;i<n;i++){
    scanf("%d",&a[i]);
}
printf("Enter the items you want to search:\n");
scanf("%d",&item);
low=0;
high=n-1;
mid=(low+high)/2;
for(i=0;i<n;i++){
    if(item==a[mid]){
        printf("%d item found at %d location",item,mid+1);
        break;
    }
    if(item<a[mid]){
        high=mid-1;
    }
    if(item>a[mid]){
        low=mid+1;
    }
mid=(low+high)/2;
}
if(found==0){
    printf("Item not found");
}

}
```