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#include<stdio.h>
int binarysearch(int a[],int n,int key);
int main(){
    int n,key;
    printf("Enter the number of elements");
    scanf("%d",&n);
    int a[n];
    printf("Enter the number of elements in sorted order");
    for(int i=0;i<n;i++){
        scanf("%d",&a[i]);
    }
    printf("Enter element to search");
    scanf("%d",&key);
    int pos = binarysearch(a,n,key);
    if(pos== -1){
        printf("Not Found");
    }else{
        printf("Found at %d pos",pos);
    }
    return 0;
}
int binarysearch(int a[],int n,int key){
    int low=0,high=n-1,mid;
    while(low<=high){
        mid=(low+high)/2;
        if(key>a[mid]){
            low=mid+1;
        }else if(key<a[mid]){
            high = mid-1;
        }else{
            return mid;
        }
    }
    return -1;
}

```