```
#include<stdio.h>
int main(){
int n,num,mid,high,low,found;
  printf("Enter size :\n");
  scanf("%d",&n);
  int a[n];
  printf("Enter sorted elements\n");
  for(int i = 0; i < n; i++) {
    scanf("%d",&a[i]);
  }
//binary search
printf("Enter the element you want to search:\n");
scanf("%d",&num);
low=0;
high=n-1;
mid=(high+low)/2;
for(int i=1;i<n;i++){
  if(num==a[mid]){
    found =1;
    printf("%d is found at %d position",num,mid+1);
    break;
  }
  if(num>a[mid]){
    low=mid+1;
  }
  if(num<a[mid]){</pre>
    high=mid-1;
  }
```

```
mid=(low+mid)/2;

}

if(found==0){
  printf("num is not found");
}
```

