

 Execute |  Share | main.c | STDIN | Permalink  Result

```
1 #include<stdio.h>
2 //global declarations
3 int a[10],n=10,i;
4
5
6 void ArrIn();
7 void Binary();
8 int main(){
9
10     ArrIn();
11
12     Binary();
13
14     return 0;
15 }
16 void ArrIn(void){
17     for(i=0;i<n;i++){
18         printf("\nEnter %d element ",i+1);
19         scanf("%d",&a[i]);
20     }
21 }
22 void Binary(){
23     int lb=1,ub=n,mid,find;
24     printf("\n Enter element which you want to find");
25     scanf("%d",&find);
26
27     while(lb<=ub){
28         mid=(lb+ub)/2;
29         if(find<mid){
30             ub=mid-1;
31         }
32         else if(find>mid){
33             lb=mid+1;
34         }
35         else if(find==mid){
36             printf("\nElement found");
37             break;
38         }
39     }
40
41     if(find!=mid){
42         printf("\nElement not found");
43     }
44 }
45
46 }
```

\$gcc -o main *.c

\$main

Enter 1 element

Enter 2 element

Enter 3 element

Enter 4 element

Enter 5 element

Enter 6 element

Enter 7 element

Enter 8 element

Enter 9 element

Enter 10 element

Enter element which you want to

Element not found