```c
1
2
3    void read(int a[] , int n)
4    {
5        printf("Enter %d elements : : " , n);
6        for(int i = 0 ;i<n ;i++)
7        {
8            scanf("%d" , &a[i]);
9        }
10   }
11
12   int binarySearch(int a[] , int b , int c , int key)
13   {
14       int low = b ;
15       int high = c;
16
17       int flag = -1;
18       int mid = (low +high)/2;
19
20       while(low<=high)
21       {
22           mid = (low+high)/2;
23
24           if(a[mid] == key)
25           {
26               flag = mid;
27               break;
28           }
29
30           if(a[mid] > key)
31           {
32               high = mid-1;
33           }
34           if(a[mid] < key)
35           {
36               low = mid+1;
37           }
38       }
39
40       return flag;
41
42   }
43
```

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```c
45   void display(int a[] , int n)
46   {
47
48       for(int i =0 ; i< n ; i++)
49       {
50           printf("%d " , a[i]);
51       }
52       printf("\n");
53   }
54
55
56
57   void bubbleSort(int a[] , int n)
58   {
59       int t;
60       for(int i =0 ; i<n ; i++)
61       {
62           for(int j =0 ; j<n-1 ; j++)
63           {
64               if(a[j] > a[j+1])
65               {
66                   t = a[j+1];
67                   a[j+1] = a[j];
68                   a[j] = t;
69               }
70           }
71       }
72   }
73
74
```

>_ Terminal   ⊞ Test cases