

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int a[25],i,j,temp,s,n,low,mid,high;
    clrscr();
    printf("\nEnter the Limit : ");
    scanf("%d",&n);
    printf("\n\nEnter the elements\n");
    for(i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=0;i<n-1;i++)
    {
        for(j=0;j<n-1;j++)
        {
            if(a[j]>a[j+1])
            {
                temp=a[j];
                a[j]=a[j+1];
                a[j+1]=temp;
            }
        }
    }
    printf("\n\nSorted list");
    for(i=0;i<n;i++)
    {
        printf("\n%d",a[i]);
    }
    printf("\n\nEnter the elements to be searched : ");
    scanf("%d",&s);
    high=n-1;
    low=0;
    while(low<=high)
    {
        mid=(low+high)/2;
        if(s>a[mid])
            low=mid+1;
        else if(s<a[mid])
            high=mid-1;
    }
}

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        else if(s==a[mid])
        {
            printf("\n\nThe element %d is found",s);
            getch();
            exit(0);
        }
    }
    printf("\n\nThe element %d is not found",s);
    getch();
}
```

-->>SAMPLE INPUT AND OUTPUT:

Enter the elements

5
4
3
2
1

Sorted list

1
2
3
4
5

Enter the element to be searched : 5

The element 5 is found.