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#include<stdio.h>
void sort(int arr[],int n)
{
    int i,j,b=0,temp;
    for(i=0;i<n-1;i++)
    {
        b=0;
        for(j=0;j<n-i-1;j++)
        {
            if(arr[j]>arr[j+1])
            {
                temp=arr[j];
                arr[j]=arr[j+1];
                arr[j+1]=temp;
                b=1;
            }
        }

        if(b==0)
            break;
    }
}

void search(int arr[],int n,int s)
{
    int fe=0,le=n,me,b=0;
    while(fe<=le)
    {
        me=(fe+le)/2;
        if(arr[me]==s)
        {
            printf("The element is found at %d",me);
            b=1;
            break;
        }
        else if(arr[me]>s)
            le=me-1;
        else
            fe=me+1;
    }

    if (b==0)
    {
        printf("The element is not found in the array");
    }
}

int main()
{
    int a[100],n,i,s;
    printf("Enter the number of elements in the array");
    scanf("%d",&n);
    printf("Enter the array");
    for(i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
    }
    printf("Enter the Search element");
}

```

```
scanf("%d",&s);  
sort(a,n);  
search(a,n,s);  
printf("\n");  
return 0;  
}
```