

```

#include<stdio.h> //this is header file
#include<conio.h> //this is also header console input
void main() //int main(),
{
    int i, first, last, middle, n, search, array[100]; //declaration of variabbe
    printf("enter the size of array=");
    scanf("%d",&n);
    printf(" Enter %d elements=",n);
    for(i=0; i<n; i++)
        scanf("%d",&array[i]);
    printf("enter the element which you want to search=");
    scanf("%d", &search);

    first=0;
    last=n-1;
    middle=(first+last)/2;
    while(first<=last)
    {
        if(array[middle]==search)
        {
            printf("%d found in location %d", search, middle+1);
            break;
        }
        else if (array[middle]<search)
            first=middle+1;
        else
            last=middle-1;
        middle=(first+last)/2;
    }
    if(first>last)
        printf("%d is not present in the list",search);
}

```