#include <stdio.h>

int main()

{

int c,first,last,middle,n,search,array[100];

printf("enter number of elements\n");

scanf("%d",&n);

printf("enter %dintegers\n",n);

for(c=0;c<n;c++)

scanf("%d",&array[c]);

printf("enter value to find \n");

scanf("%d",&search);

first=0;

last=n-1;

middle=(first=last)/2;

while(first<= last)

{

if(array[middle]<search)

first=middle +1;

else if(array[middle]==search)

{

printf("%d found at location %d,\n",search,middle+1);

break;

}

else

last = middle +1;

middle=(first + last)/2;

}

if (first > last)

printf("not found! %d is not present in the lisyt \n",search);

return 0;

}

OUTPUT:

|  |  |
| --- | --- |
| enter number of elements  5  enter 5integers  12  2  3  56  7  enter value to find  56  56 found at location 4, |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |