#include<stdio.h>

Int binarySearch(int [], int, int, int);

int main()

{

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

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

scanf("%d", &n);

printf("Enter %d integers\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;

index = binarySearch(array, first, last, search);

if (index == -1)

printf("Not found! %d isn't present in the list.\n", search);

else

printf("%d is present at location %d.\n", search, index + 1);

return 0;

}

int binarySearch(int a[], int s, int e, int f) {

int m;

if (s > e) // Not found

return -1;

m = (s + e)/2;

if (a[m] == f) // element found

return m;

else if (f > a[m])

return binarySearch(a, m+1, e, f);

else

return binarySearch(a, s, m-1, f);

}

Output:

Enter number of elements

3

Enter 3 integers

1

2

3

Enter value to find

3

3 is present at location 3.

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Process exited after 6.549 seconds with return value 0

Press any key to continue . . .