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1: #include<stdio.h>
2: int main()
3: {
4:     int c, first, last, middle, n, search, array[100];
5:     printf("Enter number of elements:");
6:     scanf("%d",&n);
7:     printf("Enter %d integers:\n", n);
8:     for ( c = 0 ; c < n ; c++ )
9:         scanf("%d",&array[c]);
10:    printf("Enter value to find:");
11:    scanf("%d",&search);
12:    first = 0;
13:    last = n - 1;
14:    middle = (first+last)/2;
15:    while( first <= last )
16:    {
17:        if ( array[middle] < search )
18:            first = middle + 1;
19:        else if ( array[middle] == search )
20:        {
21:            printf("%d found at location %d.\n", search, middle+1);
22:            break;
23:        }
24:        else
25:            last = middle - 1;
26:        middle = (first + last)/2;
27:    }
28:    if ( first > last )
29:        printf("Not found! %d is not present in the list.\n", search);
30:    return 0;
31: }

```