**#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 %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;**

**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 isn't present in the list.\n", search);**

**return 0;**

**}**

OUTPUT:

