

```
#include <stdio.h>

int main()
{
    int i, low, high, mid, n, key, array[100];
    printf("Enter number of elements\n");
    scanf("%d",&n);
    printf("Enter %d integers\n", n);
    for(i = 0; i < n; i++)
        scanf("%d",&array[i]);
    printf("Enter value to find\n");
    scanf("%d", &key);
    low = 0;
    high = n - 1;
    mid = (low+high)/2;
    while (low <= high) {
        if(array[mid] < key)
            low = mid + 1;
        else if (array[mid] == key) {
            printf("%d found at location %d.\n", key, mid+1);
            break;
        }
        else
            high = mid - 1;
        mid = (low + high)/2;
    }
    if(low > high)
        printf("Not found! %d isn't present in the list.\n", key);
    return 0;
}
```