

```
#include <stdio.h>

int main() {
    int arr[] = {1, 5, 6, 7, 9, 10};
    int n = sizeof(arr) / sizeof(arr[0]);
    int x;

    // Input the element to search
    printf("Enter the element to search: ");
    scanf("%d", &x);

    int low = 0, high = n - 1, mid, location = -1;
    while (low <= high) {
        mid = (low + high) / 2;
        if (arr[mid] == x) {
            location = mid + 1;
            break;
        } else if (arr[mid] < x) {
            low = mid + 1;
        } else {
            high = mid - 1;
        }
    }

    if (location != -1) {
        printf("Element found at location %d\n", location);
    } else {
        printf("Element not found\n");
    }

    return 0;
}
```



C:\Users\BJBalaji\OneDrive\D



Enter the element to search: 6

Element found at location 3

Process exited after 3.038 seconds with return value 0

Press any key to continue . . . |