

```
#include <stdio.h>

int main() {
int arr[100], n, key, low, high, mid;

printf("Enter number of elements: ");
scanf("%d", &n);

printf("Enter %d sorted integers:\n", n);
for (int i = 0; i < n; i++) {
scanf("%d", &arr[i]);
}

printf("Enter number to search: ");
scanf("%d", &key);

low = 0;
high = n - 1;

while (low <= high) {
mid = (low + high) / 2;

if (arr[mid] == key) {
printf("Found at position %d (index %d)\n", mid + 1, mid);
return 0;
} else if (arr[mid] < key) {
low = mid + 1;
} else {
high = mid - 1;
}
}

printf("Not found in the array.\n");
return 0;
}
```