#include <stdio.h>

int binsrc(int x[], int low, int high, int key) {

int mid;

while (low <= high) {

mid = (low + high) / 2;

if (key == x[mid])

return mid;

if (key < x[mid])

high = mid - 1;

else

low = mid + 1;

}

return -1;

}

int main() {

int x[20], key, i, n, succ;

printf("Enter the n value");

scanf("%d", &n);

if (n > 0) {

printf("enter the elements in ascending order\n");

for (i = 0; i < n; i++)

scanf("%d", &x[i]);

printf("enter the key element to be searched\n");

scanf("%d", &key);

succ = binsrc(x, 0, n - 1, key);

if (succ >= 0)

printf("Element found in position = %d\n", succ + 1);

else

printf("Element not found \n");

} else {

printf("Number of element should be greater than zero\n");

}

return 0;

}