#include <stdio.h>

int main() {

int arr[] = {5, 10, 15, 20, 25, 30, 35}; // Sorted array

int size = sizeof(arr) / sizeof(arr[0]);

int key, low = 0, high = size - 1, mid, found = 0;

printf("Enter the number to search: ");

scanf("%d", &key);

while (low <= high) {

mid = (low + high) / 2;

if (arr[mid] == key) {

printf("Element %d found at index %d.\n", key, mid);

found = 1;

break;

} else if (key < arr[mid]) {

high = mid - 1;

} else {

low = mid + 1;

}

}

if (!found)

printf("Element %d not found in the array.\n", key);

return 0;

}