**#include <stdio.h>**

**int main() {**

**int arr[] = {00, 02, 05, 10, 12, 32, 72, 96}; // Assuming sorted array**

**int n = sizeof(arr) / sizeof(arr[0]);**

**int x, low = 0, high = n - 1, mid;**

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

**scanf("%d", &x);**

**while (low <= high) {**

**mid = (low + high) / 2;**

**if (arr[mid] == x) {**

**printf("Found at index %d\n", mid);**

**return 0;**

**}**

**else if (arr[mid] < x)**

**low = mid + 1;**

**else**

**high = mid - 1;**

**}**

**printf("Not found\n");**

**return 0;**

**}**