

Solution 1Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 using System;
4 using System.Collections.Generic;
5
6 public class Program {
7     // O(b^2*r) time | O(b) space - where b is the number of blocks and r is the number of requirements
8     public static int ApartmentHunting(List<Dictionary<string, bool> > blocks, string[] reqs) {
9         int[] maxDistancesAtBlocks = new int[blocks.Count];
10         Array.Fill(maxDistancesAtBlocks, Int32.MinValue);
11
12         for (int i = 0; i < blocks.Count; i++) {
13             foreach (string req in reqs) {
14                 int closestReqDistance = Int32.MaxValue;
15                 for (int j = 0; j < blocks.Count; j++) {
16                     if (blocks[j][req]) {
17                         closestReqDistance = Math.Min(closestReqDistance, distanceBetween(
18                             i,
19                             j));
20                     }
21                 }
22                 maxDistancesAtBlocks[i] = Math.Max(maxDistancesAtBlocks[i],
23                     closestReqDistance);
24             }
25         }
26         return getIdxAtMinValue(maxDistancesAtBlocks);
27     }
28
29     public static int getIdxAtMinValue(int[] array) {
30         int idxAtMinValue = 0;
31         int minValue = Int32.MaxValue;
32         for (int i = 0; i < array.Length; i++) {
33             int currentValue = array[i];
34             if (currentValue < minValue) {
35                 minValue = currentValue;
36                 idxAtMinValue = i;
37             }
38         }
39         return idxAtMinValue;
40     }
41
42     public static int distanceBetween(int a, int b) {
43         return Math.Abs(a - b);
44     }
45 }
46
```

