

Solution 1

Solution 2

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1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 // O(b^2*r) time | O(b) space - where b is the number of blocks and r is the number of requirements
4 function apartmentHunting(blocks, reqs) {
5   const maxDistancesAtBlocks = new Array(blocks.length).fill(-Infinity);
6   for (let i = 0; i < blocks.length; i++) {
7     for (const req of reqs) {
8       let closestReqDistance = Infinity;
9       for (let j = 0; j < blocks.length; j++) {
10        if (blocks[j][req]) {
11          closestReqDistance = Math.min(closestReqDistance, distanceBetween(i, j));
12        }
13      }
14      maxDistancesAtBlocks[i] = Math.max(maxDistancesAtBlocks[i], closestReqDistance);
15    }
16  }
17  return getIdxAtMinValue(maxDistancesAtBlocks);
18 }
19
20 function getIdxAtMinValue(array) {
21   let idxAtMinValue = 0;
22   let minValue = Infinity;
23   for (let i = 0; i < array.length; i++) {
24     const currentValue = array[i];
25     if (currentValue < minValue) {
26       minValue = currentValue;
27       idxAtMinValue = i;
28     }
29   }
30   return idxAtMinValue;
31 }
32
33 function distanceBetween(a, b) {
34   return Math.abs(a - b);
35 }
36
37 exports.apartmentHunting = apartmentHunting;
38
```

