AlgoExpert Quad Layout Go 12px Sublime Monokai 00:00:00

Run Code

```
Solution 1 Solution 2
```

Scratchpad

Prompt

```
_{\rm 1} \, // Copyright 0 2020 AlgoExpert, LLC. All rights reserved.
 3 package main
 5 import "math"
 7 type Block map[string]bool
9 // O(b^2*r) time | O(b) space - where b is the number of blocks
10 \, // and r is the number of requirements.
11 func ApartmentHunting(blocks []Block, reqs []string) int {
     maxDistancesAtBlocks := make([]int, len(blocks))
13
      for i := range blocks {
14
        maxDistancesAtBlocks[i] = -1
15
        for _, req := range reqs {
16
         closestReqDistance := math.MaxInt32
17
          for j := range blocks {
          if blocks[j][req] {
18
19
             closestReqDistance = min(closestReqDistance, distanceBetween(i, j))
20
21
          maxDistancesAtBlocks[i] = max(maxDistancesAtBlocks[i], closestReqDistance)
22
23
24
25
26
      var optimalBlockIdx int
27
      smallestMaxDistance := math.MaxInt32
28
29
      for i, currentDistance := range maxDistancesAtBlocks {
       if currentDistance < smallestMaxDistance {</pre>
30
         smallestMaxDistance = currentDistance
31
          optimalBlockIdx = i
32
33
      return optimalBlockIdx
34
35 }
36
37 func distanceBetween(a, b int) int {
38
     if a > b {
39
       return a - b
40
41
     return b - a
42 }
43
44 func min(a, b int) int {
     if a < b {
45
       return a
47
48
      return b
49 }
50
51 func max(a, b int) int {
52
53
       return a
54
55
     return b
56 }
```

Our Solution(s) Video Explanation