

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 // O(br) time | O(br) space - where b is the number of blocks and r is the number of requests
4 function apartmentHunting(blocks, reqs) {
5   const minDistancesFromBlocks = reqs.map(req => getMinDistances(blocks, req));
6   const maxDistancesAtBlocks = getMaxDistancesAtBlocks(blocks, minDistancesFromBlocks);
7   return getIdxAtMinValue(maxDistancesAtBlocks);
8 }
9
10 function getMinDistances(blocks, req) {
11   const minDistances = new Array(blocks.length);
12   let closestReqIdx = Infinity;
13   for (let i = 0; i < blocks.length; i++) {
14     if (blocks[i][req]) closestReqIdx = i;
15     minDistances[i] = distanceBetween(i, closestReqIdx);
16   }
17   for (let i = blocks.length - 1; i >= 0; i--) {
18     if (blocks[i][req]) closestReqIdx = i;
19     minDistances[i] = Math.min(minDistances[i], distanceBetween(i, closestReqIdx));
20   }
21   return minDistances;
22 }
23
24 function getMaxDistancesAtBlocks(blocks, minDistancesFromBlocks) {
25   const maxDistancesAtBlocks = new Array(blocks.length);
26   for (let i = 0; i < blocks.length; i++) {
27     const minDistancesAtBlock = minDistancesFromBlocks.map(distances => distances[i]);
28     maxDistancesAtBlocks[i] = Math.max(...minDistancesAtBlock);
29   }
30   return maxDistancesAtBlocks;
31 }
32
33 function getIdxAtMinValue(array) {
34   let min = array[0];
35   let minIdx = 0;
36   for (let i = 1; i < array.length; i++) {
37     if (array[i] < min) {
38       min = array[i];
39       minIdx = i;
40     }
41   }
42   return minIdx;
43 }
```

Solution 1

Solution 2

Solution 3

```
1 function apartmentHunting(blocks, reqs) {
2   // Write your code here.
3 }
4
5 // Do not edit the line below.
6 exports.apartmentHunting = apartmentHunting;
7
```

Our Tests

Custom Output

Submit Code

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 // O(n^2) time | O(1) space
4 function apartmentHunting(blocks, reqs) {
5   // ...
6 }
7
```

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 // O(n^2) time | O(1) space
4 function apartmentHunting(blocks, reqs) {
5   // ...
6 }
7
```

Custom Output

Submit Code

```
1 # Import pandas as pd
2
3 # Import data from file
4 data = pd.read_csv('data.csv')
5
6 # Print the first 5 rows of the data
7 print(data.head())
8
9 # Print the last 5 rows of the data
10 print(data.tail())
11
12 # Print the number of rows in the data
13 print(data.shape[0])
14
15 # Print the number of columns in the data
16 print(data.shape[1])
17
18 # Print the data types of the columns
19 print(data.dtypes)
```

Run or submit code when you're ready.