Run Code

Our Solution(s)

Solution 1

Run Code

```
Your Solutions
```

14рх

```
1 function diskStacking(disks) {
2    // Write your code here.
3 }
4
5 // Do not edit the line below.
```

6 exports.diskStacking = diskStacking;

Solution 1 Solution 2 Solution 3

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   // O(n^2) time | O(n) space
4 function diskStacking(disks) {
     disks.sort((a, b) => a[2] - b[2]);
     const heights = disks.map(disk => disk[2]);
     const sequences = new Array(disks.length);
     let maxHeightIdx = 0;
9
     for (let i = 1; i < disks.length; i++) {
       const currentDisk = disks[i];
10
11
       for (let j = 0; j < i; j++) {
12
         const otherDisk = disks[j];
         if (areValidDimensions(otherDisk, currentDisk)) {
14
           if (heights[i] <= currentDisk[2] + heights[j]) {</pre>
             heights[i] = currentDisk[2] + heights[j];
16
             sequences[i] = j;
17
18
19
20
        if (heights[i] >= heights[maxHeightIdx]) maxHeightIdx = i;
21
22
     return buildSequence(disks, sequences, maxHeightIdx);
23 }
24
25 function areValidDimensions(o, c) {
26
     return o[0] < c[0] && o[1] < c[1] && o[2] < c[2];
27 }
28
29 function buildSequence(array, sequences, currentIdx) {
30
     const sequence = [];
31
     while (currentIdx !== undefined) {
       sequence.unshift(array[currentIdx]);
33
       currentIdx = sequences[currentIdx];
```

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 Our Tests
 Custom Output
 Submit Code

Run or submit code when you're ready.