AlgoExpert   Quad Layout   C++   14px   Sublime   Monokai   00:00:

Our Solution(s)   Run Code

Solution 1

```cpp
// Copyright © 2020 AlgoExpert, LLC. All rights reserved.

#include <vector>
#include <algorithm>
#include <climits>
using namespace std;

bool areValidDimensions(vector<int> o, vector<int> c);
vector<vector<int>> buildSequence(vector<vector<int>> array,
                                  vector<int> sequences, int currentI

// O(n^2) time | O(n) space
vector<vector<int>> diskStacking(vector<vector<int>> disks) {
  sort(disks.begin(), disks.end(),
       [](vector<int> &a, vector<int> &b) { return a[2] < b[2]; });
  vector<int> heights;
  for (int i = 0; i < disks.size(); i++) {
    heights.push_back(disks[i][2]);
  }
  vector<int> sequences;
  for (int i = 0; i < disks.size(); i++) {
    sequences.push_back(INT_MIN);
  }
  int maxHeightIdx = 0;
  for (int i = 1; i < disks.size(); i++) {
    vector<int> currentDisk = disks[i];
    for (int j = 0; j < i; j++) {
      vector<int> otherDisk = disks[j];
      if (areValidDimensions(otherDisk, currentDisk)) {
        if (heights[i] <= currentDisk[2] + heights[j]) {
          heights[i] = currentDisk[2] + heights[j];
          sequences[i] = j;
        }
```

Your Solutions   Run Code

Solution 1   Solution 2   Solution 3

```cpp
#include <vector>
using namespace std;

vector<vector<int>> diskStacking(vector<vector<int>> disks) {
  // Write your code here.
  return {};
}

```

Our Tests

```
[illegible]
```

Custom Output   Submit Code

```
[illegible]
```

Run or submit code when you're ready.