Our Solution(s) Run Code

Solution 1

```swift
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class Program {
    // O(n^2) time | O(1) space
    func diskStacking(disks: inout [[Int]]) -> [[Int]] {
        disks.sort(by: { $0[2] < $1[2] })

        var heights = disks.map { $0[2] }
        var previousIndices = Array(repeating: -1, count: disks.count
        var maximumHeightIndex = 0

        for i in 1 ..< disks.count {
            let currentDisk = disks[i]

            for j in 0 ..< i {
                let previousDisk = disks[j]

                if areValidDimensions(previousDisk, currentDisk) {
                    if heights[i] <= heights[j] + currentDisk[2] {
                        heights[i] = heights[j] + currentDisk[2]
                        previousIndices[i] = j
                    }
                }
            }

            if heights[i] >= heights[maximumHeightIndex] {
                maximumHeightIndex = i
            }
        }

        return buildSequence(disks, previousIndices, &maximumHeightInd
    }

```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```swift
class Program {
    func diskStacking(disks: inout [[Int]]) -> [[Int]] {
        // Write your code here.
        return []
    }
}

```

Our Tests

Custom Output Submit Code

Run or submit code when you're ready.