5425. Maximum Area of a Piece of Cake After Horizontal and Vertical Cuts

/weekly-contest-191/problems/maximum-area-of-a-piece-of-cake-after-horizontal-and-vertical-cuts/submissions/)

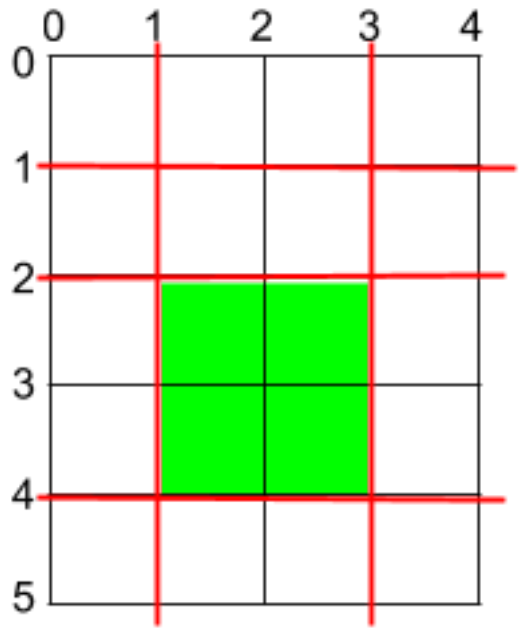
'weekly-contest-191/)

Given a rectangular cake with height `h` and width `w`, and two arrays of integers `horizontalCuts` and `verticalCuts` where `horizontalCuts[i]` is the distance from the top of the rectangular cake to the `ith` horizontal cut and similarly, `verticalCuts[j]` is the distance from the left of the rectangular cake to the `jth` vertical cut.

Return the maximum area of a piece of cake after you cut at each horizontal and vertical position provided in the arrays `horizontalCuts` and `verticalCuts`. Since the answer can be a huge number, return this modulo 10^9 + 7.

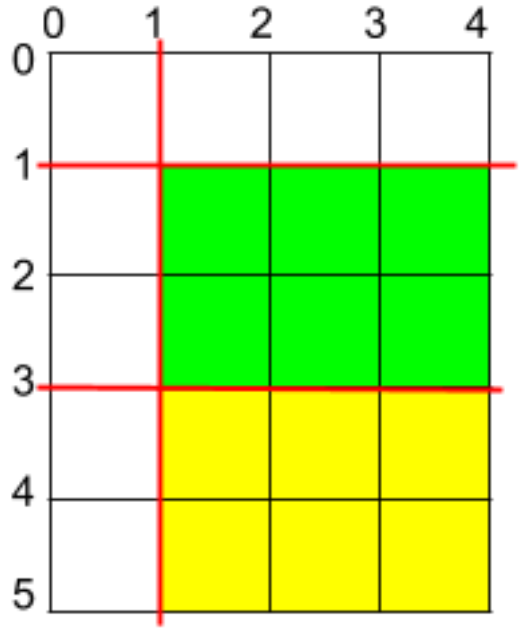
User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:




```
Input: h = 5, w = 4, horizontalCuts = [1,2,4], verticalCuts = [1,3]
Output: 4
Explanation: The figure above represents the given rectangular cake. Red lines are the hor
```

Example 2:




```
Input: h = 5, w = 4, horizontalCuts = [3,1], verticalCuts = [1]
Output: 6
Explanation: The figure above represents the given rectangular cake. Red lines are the hor
```

Example 3:

```
Input: h = 5, w = 4, horizontalCuts = [3], verticalCuts = [3]
Output: 9
```

Constraints:

- `2 <= h, w <= 10^9`
- `1 <= horizontalCuts.length < min(h, 10^5)`
- `1 <= verticalCuts.length < min(w, 10^5)`
- `1 <= horizontalCuts[i] < h`
- `1 <= verticalCuts[i] < w`
- It is guaranteed that all elements in `horizontalCuts` are distinct.
- It is guaranteed that all elements in `verticalCuts` are distinct.

JavaScript

```
/**
 * @param {number} h
 * @param {number} w
 * @param {number[]} horizontalCuts
 * @param {number[]} verticalCuts
 * @return {number}
 */
var maxArea = function(h, w, horizontalCuts, verticalCuts) {

```