

Description

Solution

Discuss (831)

Submissions

## 1465. Maximum Area of a Piece of Cake After Horizontal and Vertical Cuts

Medium

1358

256

Add to List

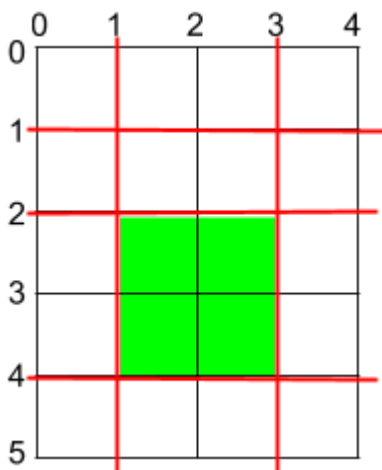
Share

You are given a rectangular cake of size  $h \times w$  and two arrays of integers `horizontalCuts` and `verticalCuts`.

- `horizontalCuts[i]` is the distance from the top of the rectangular cake to the  $i^{\text{th}}$  horizontal cut and similarly
- `verticalCuts[j]` is the distance from the left of the rectangular cake to the  $j^{\text{th}}$  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 large number, return this **modulo**  $10^9 + 7$ .

### 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 horizontal and vertical cuts. After you cut the cake, the green piece of cake has the maximum area.

### Example 2:

Problems

Pick One

&lt; Prev

1465/232