

2184. Number of Ways to Build Sturdy Brick Wall

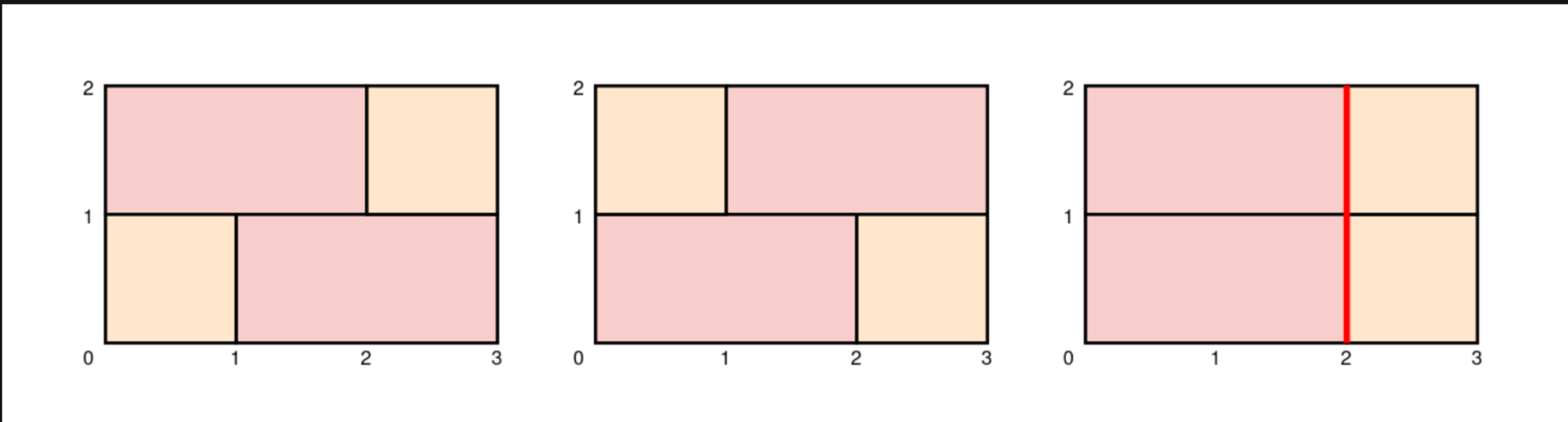
Description

You are given integers `height` and `width` which specify the dimensions of a brick wall you are building. You are also given a **0-indexed** array of **unique** integers `bricks`, where the `ith` brick has a height of `1` and a width of `bricks[i]`. You have an **infinite** supply of each type of brick and bricks may **not** be rotated.

Each row in the wall must be exactly `width` units long. For the wall to be **sturdy**, adjacent rows in the wall should **not** join bricks at the same location, except at the ends of the wall.

Return *the number of ways to build a sturdy wall*. Since the answer may be very large, return it **modulo** `109 + 7`.

Example 1:



Input: `height = 2, width = 3, bricks = [1,2]`
Output: `2`
Explanation:
The first two walls in the diagram show the only two ways to build a sturdy brick wall.
Note that the third wall in the diagram is not sturdy because adjacent rows join bricks 2 units from the left.

Example 2:

Input: `height = 1, width = 1, bricks = [5]`
Output: `0`
Explanation:
There are no ways to build a sturdy wall because the only type of brick we have is longer than the width of the wall.

Constraints:

- `1 <= height <= 100`
- `1 <= width <= 10`
- `1 <= bricks.length <= 10`
- `1 <= bricks[i] <= 10`
- All the values of `bricks` are **unique**.

