You have an infinite number of 4 types of lego blocks of sizes given as (depth x height x width):

d	h	W
1	1	1
1	1	1 2
1	1	3
1	1	4

Problem

Using these blocks, you want to make a wall of height n and width m. Features of the wall are:

- The wall should not have any holes in it.
- The wall you build should be one solid structure, so there should not be a straight vertical break across all rows of bricks.
- The bricks must be laid horizontally.

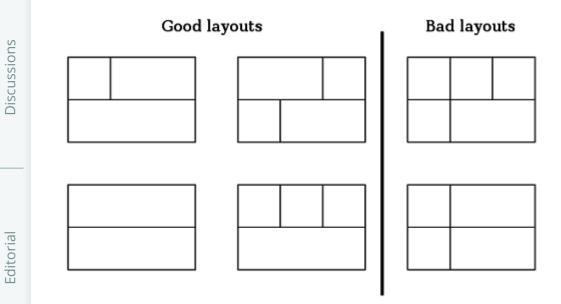
How many ways can the wall be built?

Example

n = 2

m=3

The height is ${f 2}$ and the width is ${f 3}$. Here are some configurations:



These are not all of the valid permutations. There are $oldsymbol{9}$ valid permutations in all.

Function Description

Complete the legoBlocks function in the editor below.

legoBlocks has the following parameter(s):

- int n: the height of the wall
- int m: the width of the wall

