790: Domino & Tromino Tiling
Imput: 2 x n (n is input) in matrix
We have two dominos and tromino (an be rotated)
Q:- Find the number of ways by which (2×n) matrix can
be filled with dominos and trominos.
I tried to solve this question using tree based structure. but I was not able to create a proper tree to solve it.
I thought that the question can be translated to something like this.
2 kn boxes, and we have 2, 3. Find the number of ways 2 and 3 can be summed to reach the target of 2 kn. But this doesn't take notation
Another approach was
def func (row1, row2) Here we start with row1=n and row2=n, and
subtract from rowl and rowl hased on the domino and tromino orientation.
Like. 70W1-1 70W1-2 70W2-1
Do the same for the other orientation as well

But this fails as well because [.] -HILA in rowt orientation of domino can be placed either or rows. (Try it, this logic dozent work) herson learnt: - When you are not able to create a tree to solve the dp problem. Fallback to tabulation approach directly. See how can we generate F(n) based on previous values. this can also be done in two ways 1 Assume you have values till i F(i) and how F(i+1) can be calculated. 2) Here try to play around and calculate F(1), F(2).F(3). Assumption F(i), doesn't come straightforward here, (Used Here) partially covered (pc) July covered (fc) last column not completely filled (symmetric) . we will count this (realed from f(1) I created from f(2) I created from p(2)

