

Image #7:

a)

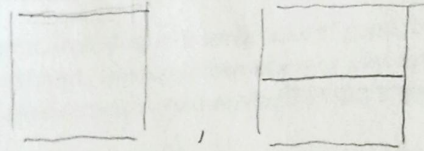
$dp[i][0] :$

b)

from $dp[i-1][0] :$

Image #8:

a)



2 possibilities

b)

Image #9:

a)

from $dp[i-1][1] :$

b)

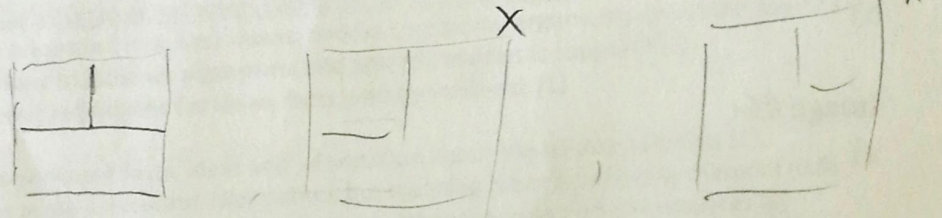


Image #10:

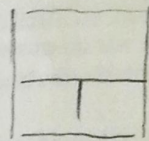
a)

1 possibility

b)

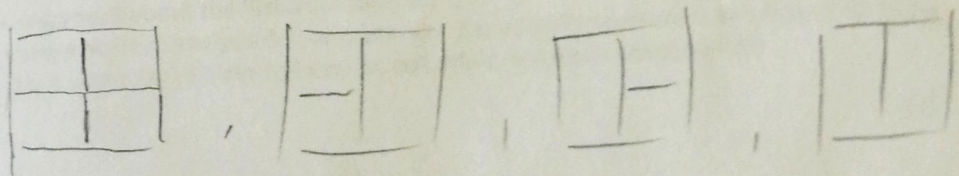
$dp[i][1] :$

from $dp[i-1][0] :$



1 possibility

from $dp[i-1][1] :$



4 possibilities

$$\begin{cases} dp[i][0] = 2dp[i-1][0] + dp[i-1][1] \\ dp[i][1] = dp[i-1][0] + 4dp[i-1][1] \end{cases}$$