



$$\binom{n}{k} = \frac{n!}{k!(n-k)!} \quad \begin{array}{|c|c|c|} \hline & & \\ \hline & & \\ \hline & & \\ \hline \end{array} = 4 \times 4 = \binom{6}{3} = 6 \text{ chooses } 3 = 20$$

n = total steps, $k = w \wedge h \in w \times h$ grid