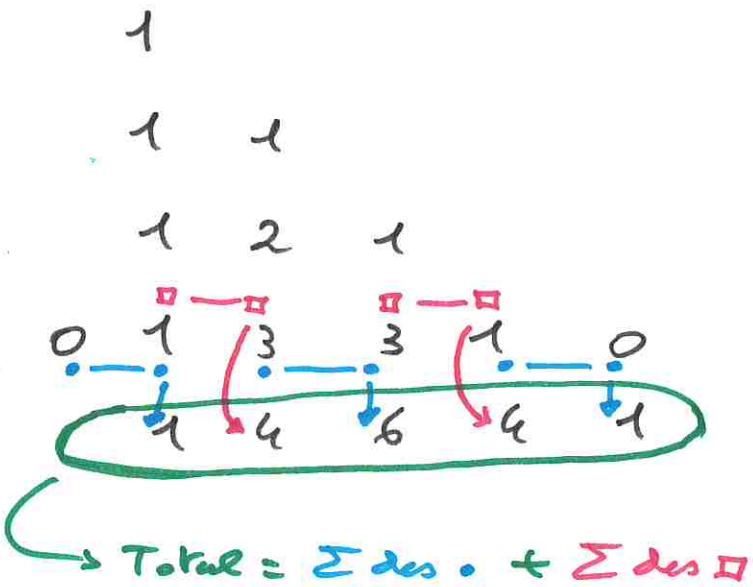
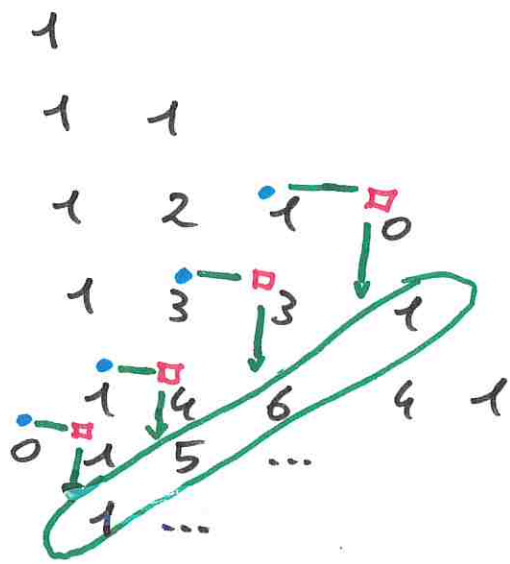
Un triangle de Pascal à observer

$$\sum_{k=0}^{n} \binom{n}{k} = 2^n$$



Donc Total ligne $n+1$ k = 2 · Total. ligne $n+1$ $(k-1)$

Total $k^{\text{ième}}$ diago $= F_k$ ($k^{\text{ième}}$ nbre de Fibonacci)



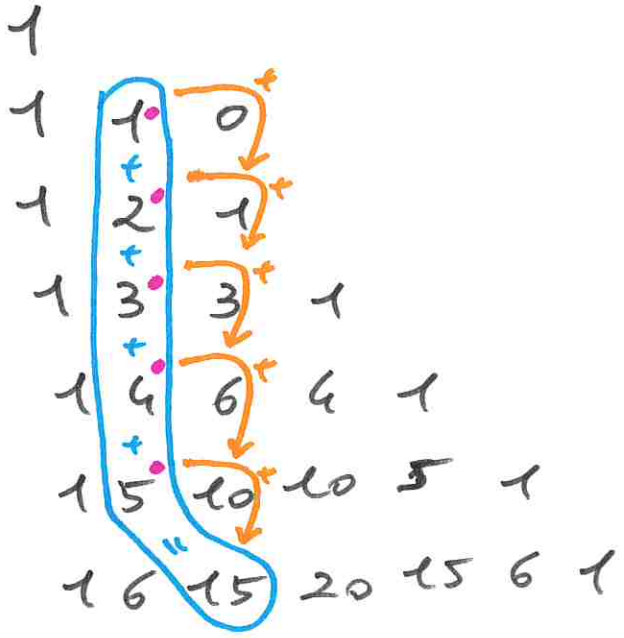
↳ Total = Σ des $\bullet$ + Σ des $\square$

Donc Total diag $n \equiv k$

= _____ ($k-1$)

\+ _____ ($k-2$)

Formule de la cross de Pockey



$$\sum_{i=k}^{n} \binom{i}{k} = \binom{n+1}{k+1}$$