1 PIOTR GUNIA

Z: $k \geq 1$

T: $\binom{n}{k} = \frac{n}{k}\binom{n-1}{k-1}$

$$L = \binom{n}{k} = \frac{n!}{k!(n-k)!} = \frac{n}{k}\frac{(n-1)!}{(k-1)!\,(n-k)!} = \frac{n}{k}\frac{(n-1)!}{(k-1)!\,((n-1)-(k-1))!} = \frac{n}{k}\binom{n-1}{k-1}$$