Theorem

$$(x+y)^n = \sum_{k=0}^n \binom{n}{k} x^{n-k} y^k.$$

Note by the $\binom{n}{k} = \binom{n}{n-k},$ we also have $(x+y)^n = \sum_{k=0}^n \binom{n}{k} x^k y^{n-k}.$

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