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## Binomial Expansion

### Expression for general term in binomial expansion

The general term in binomial expansion is expressed as

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$$t_{r+1} = C(n, r) a^{n-r} x^r$$

### Expression for middle term

#### Middle term in power of odd number in binomial expansion

The middle term for power of odd number in binomial expansion is

$$t_{\frac{n}{2}+1}$$

#### Middle term in power of even number in binomial expansion

The middle term for power of even number in binomial expansion is

$$t_{\frac{n+1}{2}+1} t_{\frac{n-1}{2}-1}$$