


## Content <br> 

Applications

$T(n)=T(n-1)+(n-1) T(n-2)$,




Summation formula and approximation
$T(n)=\sum_{k=0}^{\mid n / 2]}\binom{n}{2 k}(2 k-1)!!=\sum_{k=0}^{\mid n / 2]} \frac{n!}{2^{k}(n-2 k)!k!}$


$\left.T(n) \sim\left(\frac{n}{e}\right)^{n / 2} \frac{e^{\sqrt{n}}}{(4 e)^{1 / 4}} \cdot 11110 \cdot \right\rvert\, 11$


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