\[ 1, 3, 10, 35 \ldots = \binom{2n-1}{n} \]

= no. of ways to put \( n \) indistinguishable objects into \( n \) distinguishable boxes

= no. of \( n^{th} \) degree monomials in \( n \) variables

= no. of monotone maps from \( 1,2,\ldots,n \) to \( 1,2,\ldots,n \)

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