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A Formal Power Series for Non-Decreasing Dyck Paths

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A Dyck word is a string in the letters X and Y with n X 's, n Y 's, such that no initial sub-word has more Y 's than X 's. Each Dyck word gives rise to a path (a Dyck path) in the xy -plane having only North-East steps and South-East steps. We construct a formal power series on several variables that encodes many statistics on non-decreasing Dyck paths. In particular, we use this formal power series to count peaks, and indexed sums of pyramid weights, for all non-decreasing Dyck paths of length $2n$.

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