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Stack-Sortable Permutations and Polynomials

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Abstract: The Catalan numbers show up in a diverse variety of counting problems. In this note we give yet another characterization of the Catalan number C(n). It is characterized as the dimension of a certain space of multilinear polynomials by exhibiting a basis.

Key Words: Catalan numbers, stack-sortable permutations, permutations acting on polynomials.