1107-05-75 Shalosh B. Ekhad and Doron Zeilberger* (zeilberg@math.rutgers.edu). The Generating Functions Enumerating 12..d-Avoiding Words with r occurrences of each of 1,2, ..., n are D-finite for all d and all r.

We will explain why the title is correct. Recall that a formal power series is D-finite if it satisfies a linear differential equation with polynomial coefficients. For example $\cos(x)$, $\sin(x)$, $exp(x + x^2)$ are D-finite, but $\tan(x)$ is not. (Received December 29, 2014)