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*The Self-Counting Identity*,  
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**Abstract**

This paper presents a curious and interesting analytic identity involving the simple self-counting sequence  $\{a_k\}_{k=1}^{\infty} = \{1, 2, 2, 3, 3, 3, 4, 4, 4, 4, \dots\}$ . The shape of this identity is similar to a Lambert series and gives therefore rise to a combinatorial interpretation, which we deduce in the second half of the paper.