Problem 14. Let \( a_1 = 1 \), and for positive integer \( n > 1 \) define \( a_n \) recursively by

\[
\frac{a_n}{n + 1} = \frac{1}{n - 1} \sum_{k=1}^{n-1} a_k.
\]

Find the exact value of \( a_{2012} \).