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recursively $\sigma(n_0) \rightarrow n_1$

$\begin{matrix} 1 & 2 \\ \hline 2, & 3, & 4, & 7, & 8, & 15, & 24, & 60, & 168, & 480, \\ 1512, & 4800, & 15748, & 28672, & 65528 \\ 122880, & 393192, & 1098240, & 4124736, \\ 15605760, & 50328576, & 149873152, \\ 371226240, & 1710858240, & 7926750720 \\ 33463001088, & 109760857440 \\ 384120963072, \end{matrix}$

$$a(n) = \sigma(a(n-1))$$