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$$\frac{S_{2n}}{S_n} = \frac{\frac{a_1(q^{2n}-1)}{q-1}}{\frac{a_1(q^n-1)}{q-1}} = \frac{q^{2n}-1}{q^n-1} = \frac{(q^n-1)(q^n+1)}{q^n-1} = q^n+1$$

- 2n -