



$$\begin{aligned} & \frac{K}{2} + \frac{K+1}{2} = \frac{10(11)}{2} = 112 + 34 + 15 + 6 + 7 + 8 + 9 + 10 \\ & = \frac{4(5)}{2} = 100 \end{aligned}$$

* Collatz

$$\downarrow a_0 \left\{ \begin{array}{l} \text{impar} = 3 \cdot a_0 + 1 \\ \text{par} = a_0/2 \end{array} \right\} a_1 \left\{ \begin{array}{l} \text{impar} = 3 \cdot a_1 + 1 \\ \text{par} = a_1/2 \end{array} \right\} a_2 \dots \quad \boxed{a_n = 1}$$

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$$7 \rightarrow 22 \rightarrow 11 \rightarrow 34 \rightarrow 17 \rightarrow 52 \rightarrow 26 \rightarrow 13 \rightarrow 40 \rightarrow 20 \rightarrow 10 \rightarrow 5 \rightarrow 16$$

$$\rightarrow 8 \rightarrow 4 \rightarrow 2 \rightarrow 1$$

