

$$\mathbb{R}_n \equiv [1 - 2(n \bmod 2)] \left(\left\lfloor \frac{\left\lfloor \frac{\text{isqrt}\left(8 \left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \text{isqrt}\left(8 \left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor^2}{2} + \left\lfloor \frac{\text{isqrt}\left(8 \left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \text{isqrt}\left(8 \left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor - \left\lfloor \frac{n}{2} \right\rfloor - 1 + \frac{\sum_{k=0}^{\max\left(0, 1 + \left\lfloor \log_b \left(\left\lfloor \frac{n}{2} \right\rfloor - \left\lfloor \frac{\left\lfloor \frac{\text{isqrt}\left(8 \left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \text{isqrt}\left(8 \left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor - \left\lfloor \frac{\left\lfloor \frac{\text{isqrt}\left(8 \left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \text{isqrt}\left(8 \left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor}{2} \right)} \right)}{\frac{1}{b} \left\lfloor \frac{n}{2} \right\rfloor - \left\lfloor \frac{\left\lfloor \frac{\text{isqrt}\left(8 \left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \text{isqrt}\left(8 \left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor}{2} \right)} \right) \exp \left(\max \left(0, \left\lfloor \frac{\left\lfloor \frac{\text{isqrt}\left(8 \left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \text{isqrt}\left(8 \left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor - \left\lfloor \frac{n}{2} \right\rfloor}{2} \right) \right) \right)$$

$$\left. \begin{aligned}
& \left\lfloor \frac{\left\lfloor \frac{\text{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \text{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} - 1 \right\rfloor \left\lfloor \frac{\text{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \text{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor}{b^k} \right\rfloor \bmod 1 \exp \left(\max \left(0, 1 + \left\lfloor \log_b \left(\left\lfloor \frac{n}{2} \right\rfloor - \frac{\left\lfloor \text{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \text{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} - 1 \right\rfloor \left\lfloor \frac{\text{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \text{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor \right) \right\rfloor \right) \ln b - k \ln b \right) \\
& \left\lfloor 0, 1 + \left\lfloor \log_b \left(\left\lfloor \frac{n}{2} \right\rfloor - \frac{\left\lfloor \text{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \text{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} - 1 \right\rfloor \left\lfloor \frac{\text{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) + \text{isqrt}\left(8\left\lfloor \frac{n}{2} \right\rfloor + 1\right) \bmod 2}{2} \right\rfloor \right) \right\rfloor \right) \ln b \right)
\end{aligned} \right\} \forall n \in \mathbb{N}_0, \text{ base } b$$