

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