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4. 4

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$$1) \quad 2ns + 0.1ns = 2.1ns$$

$$2) \quad S = \frac{T_{cycleold}}{T_{cyclenew}} \cdot \frac{CPI_{old}}{CPI_{new}} = \frac{7ns}{2.1ns} \cdot \lim_{N \rightarrow \infty} \frac{N}{N+4} = 3.33$$

3) $T_{cyclenew}$ 无限接近于 $0.1ns$

$$\approx S_{\infty} = \frac{7ns}{0.1ns} = 70$$