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1. 1). $\bar{T}_{\text{pipe}} = 2 \text{ ns} + 0.1 \text{ ns} = 2.1 \text{ ns}$

2). $S = \frac{N \cdot \bar{T}_{\text{cycle}}}{(N+k-1) \cdot \bar{T}_{\text{pipe}}} \underset{N \gg k-1}{\sim} \frac{\bar{T}_{\text{cycle}}}{\bar{T}_{\text{pipe}}} = \frac{1}{2.1} = \frac{10}{3}$

3). $T_{\text{pipe}} = 0.1 \text{ ns}, k \rightarrow \infty, N \text{ 为有限值}$

$S \rightarrow 0$, 即加速化的极限为 0



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