第七周.

1) 应取 1nS, 1.5 nS, 1nS, 2ns, 1.5 ns 的最大值 2ns, 再加 0.1nS $= 2.1$ nS 为 T_{clock}.

2) $S = \dfrac{T_{pipe}}{T_{old}} \cdot \dfrac{CPI_{pipe}}{CPI_{old}} = \dfrac{2.1\,ns}{7ns} \times \dfrac{N+4}{N} \to 0.3$

3) 将它无限级分割 $T_{pipe} = \dfrac{7}{n} + 0.1 \to 0.1$ ns, $\therefore S_{min} = \dfrac{1}{70}$.