

5. 12-18. 20.

12. [解]: (1) int $a_0 = 0, a_1 = 0, a_2, a_3, a_4 = 10000;$

do { $a_3 = a_0 + 2;$

$a_2 = a_1 \% a_3;$

if ($a_2 == a_0$)

Code A:

$a_3 = a_0 + 5;$

$a_2 = a_1 \% a_3;$

if ($a_2 == a_0$)

Code B:

$a_1 = a_1 + 1; \} \text{ while } (a_1 != a_4).$

$$\begin{aligned} 2) B_1 : B_2 : B_3 &= (10000 - \frac{6000}{2}) : (10000 - \frac{6000}{5}) = 9999 \\ &= 5000 : 8000 : 9999. \end{aligned}$$

3) 由题，只有 B_3 向前跳

$$\Rightarrow \eta_{B_1} = 0.5, \quad \eta_{B_2} = 0.2, \quad \eta_{B_3} = 99.99\%.$$

-13. [解]: (1) $K_{\min} = 2.$

(2) $N_{\min} = 2.$

$$(3) \eta_{B_1} = 0.5, \quad \eta_{B_2} = 0.2, \quad \eta_{B_3} = 99.99\%.$$

4. $1t_m = 1, \quad 1t_{m2} = 4$

$$1t_m < 1t_{m2} \Rightarrow 1t_{\min} = 1t_{m2} = 4.$$



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$$15. M_{\min} = 3 \times 4 = 12 ?$$

$$16. \eta_A = \frac{P-1}{P} \cdot \frac{Q-2}{Q}$$

$$\eta_B = \begin{cases} 1, & P < Q \\ \frac{Q}{P}, & P > Q. \end{cases}$$

$$\textcircled{1}: \frac{P-1}{P} \cdot \frac{Q-2}{Q} > 1, \quad Q > 2 \\ (1 - \frac{1}{P})(1 - \frac{2}{Q}) > 1.$$

$$(1 - \frac{1}{P}) > \frac{1}{1 - \frac{2}{Q}}$$

$$1 - \frac{1}{1 - \frac{2}{Q}} > P$$

$$\Rightarrow P < 1 - \frac{1}{1 - \frac{2}{Q}} \quad \& \quad P < Q.$$

$$\textcircled{2}: \frac{P-1}{P} \cdot \frac{Q-2}{Q} > \frac{Q}{P} \\ P > \frac{Q^2}{Q-2} + 1$$

$$\textcircled{1}, (1, 0) (0, 1), \textcircled{2} \Rightarrow 2 \times 4 = 8 ?$$

121



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18. 可能由于采用了乱序执行技术，重排了指令的执行顺序；也可能跟指令自身所需周期数有关。使用汇分牌可以处理此情况。一般有一种 标识-识别-堆栈保存-处理 的程序进行处理。

20. 题：



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