

Tawn open. (for black)

$$1) \quad R7+1, C2=3 - \begin{cases} C2=5, E3+5 \rightarrow \\ C8=5, C8=5 \end{cases}$$

$$1) \quad C5+4, A4+5 - E7+5 = H2+4 - C5=7, R7=2 - H8+6, R9+7 - H2+3, R9=6 \rightarrow$$

$$\dots \begin{cases} E9=8, R2+4 - R5+7, R6+5 - R7=2, H8+9, \dots C8=7 \\ R3+7, R2+4 - R5+7, R6+5 - \begin{cases} R9=8, R6=4/7 \times \\ R7+7, H8+7 \end{cases} \end{cases}$$

$$2) \quad A6+5, R7+7 - H2+3, H8+7 - R7=2, R9=8 - R2+6, H2+4 - C8=6, H7+6 - R2=2, R7+7 - R2=3, C8=7$$

$$3) \quad H8+9, R9+7 - \begin{cases} C5+4, A4+5 - H2+3, H2+4 - C5=2, H9=6 - R1=2, R6+3 (-C5=3, C8+2) \\ H2+3, R9=4 - R9=8, A4+5 - R7=2, R4+3 \times \end{cases}$$

$$4) \quad H2+3, R3+7 - R7=2, R3+7 - \begin{cases} C8=7, R7+2 \\ H8+9, R9+7 - \begin{cases} C5+4, A4+5 - C8+6, H2+4 - R2+4, R1+1 - R9=8, R9=6 \\ R2+4, R9=4 - R2=7, R4+2 \\ A6+5, R9=4 - C5+4, A4+5 - C5=7, H8+9 - \begin{cases} R2+4, R3+1 - C8+2, C8=7 \\ C8=4, R4+4 - E7+5, H2+4 \end{cases} \end{cases} \\ R9=8, R9=4 \rightarrow \end{cases}$$

$$a) \quad C5=4, A4+5 - C5=7, H8+9 - \begin{cases} R2+4, R7+7 - R2=7, R4+2 - C7=2, H2+4 \\ C8=4, R4+4 - E7+5, R4=6 - A6+5, R6+1 \end{cases}$$

$$b) \quad R2+4, R4+2$$

$$c) \quad A6+5, R4+4 - \begin{cases} C5+4, A4+5 - C5=7, H8+9 - C8=4, H2+4 - E7+5, C8=7 - C7=2, R7+1 \times \\ C8=6, A4+5 - R8+8, H8+9 - C5+4, C8=7 \times \end{cases}$$