

$$\begin{array}{ccccccc}
 \mathbf{0}, \mathbf{a}_{0,0} \mathbf{a}_{0,1} \mathbf{a}_{0,2} \cdots \mathbf{a}_{0,n} \cdots & \mapsto & \mathbf{9} - \mathbf{a}_{0,0} = \mathbf{d}_0 \\
 \mathbf{0}, \mathbf{a}_{1,0} \mathbf{a}_{1,1} \mathbf{a}_{1,2} \cdots \mathbf{a}_{1,n} \cdots & \mapsto & \mathbf{9} - \mathbf{a}_{1,1} = \mathbf{d}_1 \\
 \mathbf{0}, \mathbf{a}_{2,0} \mathbf{a}_{2,1} \mathbf{a}_{2,2} \cdots \mathbf{a}_{2,n} \cdots & \mapsto & \mathbf{9} - \mathbf{a}_{2,2} = \mathbf{d}_2 \\
 \mathbf{0}, \mathbf{a}_{3,0} \mathbf{a}_{3,1} \mathbf{a}_{3,2} \cdots \mathbf{a}_{3,n} \cdots & \mapsto & \mathbf{9} - \mathbf{a}_{3,3} = \mathbf{d}_3 \\
 \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots & & \\
 \mathbf{0}, \mathbf{a}_{n,0} \mathbf{a}_{n,1} \mathbf{a}_{n,2} \cdots \mathbf{a}_{n,n} \cdots & \mapsto & \mathbf{9} - \mathbf{a}_{n,n} = \mathbf{d}_n \\
 \vdots & & \vdots \\
 \vdots & & \vdots \\
 \vdots & & \vdots \\
 \vdots & & \vdots
 \end{array}$$