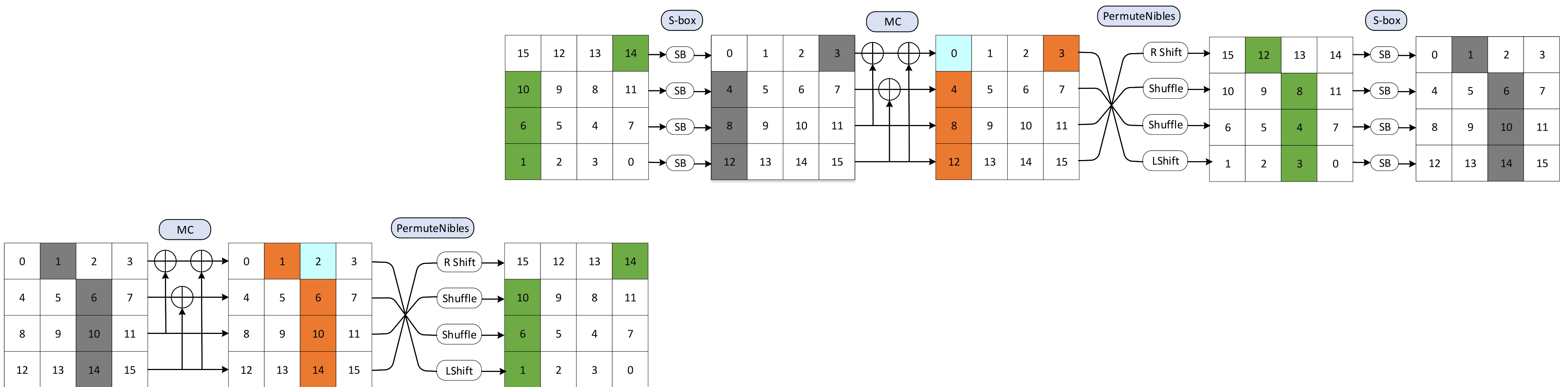
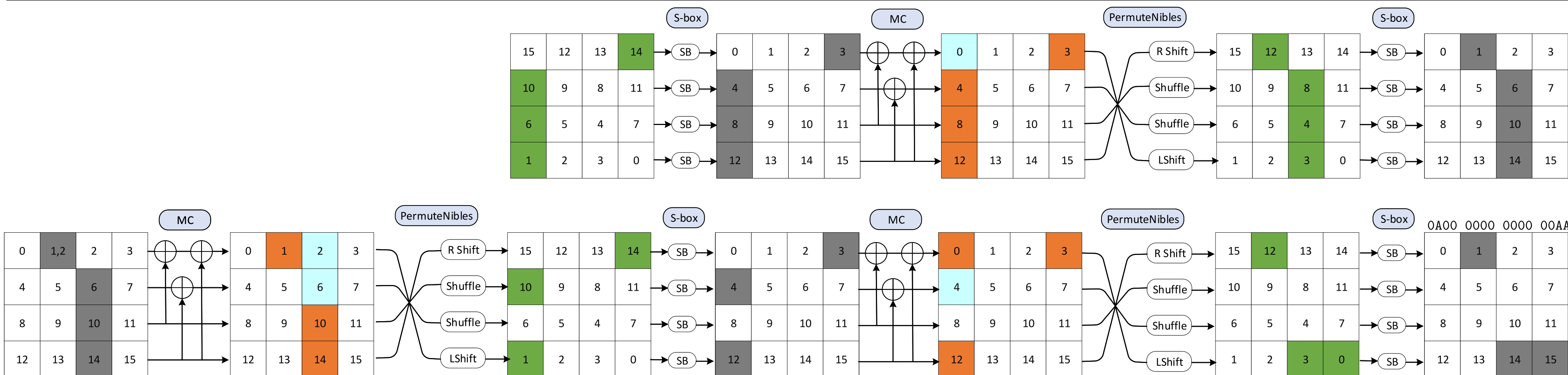


Intermedaite values are taken from  $\{5, 7, A, D, F\}$   
 $X^4[14] = X^4[10] \neq X^4[6] \implies$  There are  $5 \times 5 \times 4 = 100$   
possible values for  $Y^4$

$Even_{in,4}$



$Even_{m,2}$



$Even_{out,4}$

$$p^{in} = (p_1^{in} \quad \dots \quad p_{100}^{in})$$

$$p^m = \begin{pmatrix} p_{1,1}^m & \dots & p_{1,100}^m \\ \vdots & \ddots & \vdots \\ p_{100,1}^m & \dots & p_{100,100}^m \end{pmatrix}$$

$$p^{out} = \begin{pmatrix} p_1^{out} \\ \vdots \\ p_{100}^{out} \end{pmatrix}$$

$$p^{tot} = p^{in} \times p^m \times p^{out}$$