

$$k = 6, n = 6, \quad p(\boxed{\cdot}) = p_1, \dots \quad \sum_{i=1}^k p_i = 1$$

$$\omega = (\boxed{\begin{smallmatrix} \cdot & \cdot \\ \cdot & \cdot \end{smallmatrix}}, \boxed{\begin{smallmatrix} \cdot & \cdot \\ \cdot & \cdot \\ \cdot & \cdot \end{smallmatrix}}, \boxed{\begin{smallmatrix} \cdot & \cdot \\ \cdot & \cdot \end{smallmatrix}}, \boxed{\cdot}, \boxed{\begin{smallmatrix} \cdot & \\ & \cdot \end{smallmatrix}}, \boxed{\begin{smallmatrix} \cdot & \\ & \cdot \end{smallmatrix}})$$

$$X_1 = 1, X_2 = 0, X_3 = 2, X_4 = 2, X_5 = 0, X_6 = 1$$