

$$x_j = \begin{cases} x_j & \text{if } x_j \geq 0.5 \text{ and } j \in J^* \\ 1 - x_j & \text{if } x_j < 0.5 \text{ and } j \in J^* \\ x_j & \text{if } x_j < 0.5 \text{ and } j \notin J^* \\ 1 - x_j & \text{if } x_j \geq 0.5 \text{ and } j \notin J^*. \end{cases}$$