Rotation for Leaf Nodes: From Left to Right

$$\ldots \ y \quad x \quad z \ldots$$

$$p_1 \ j_1 \ \ldots \ p_m \ j_m \quad \longrightarrow \quad q_1 \ k_1 \ \ldots \ q_n \ k_n \quad \longrightarrow$$

$$\ldots \ y \quad j_m \quad z \ldots$$

$$p_1 \ j_1 \ \ldots \ p_{m-1} \ j_{m-1} \quad \longrightarrow \quad p_m \ j_m \ q_1 \ k_1 \ \ldots \ q_n \ k_n \quad \longrightarrow$$
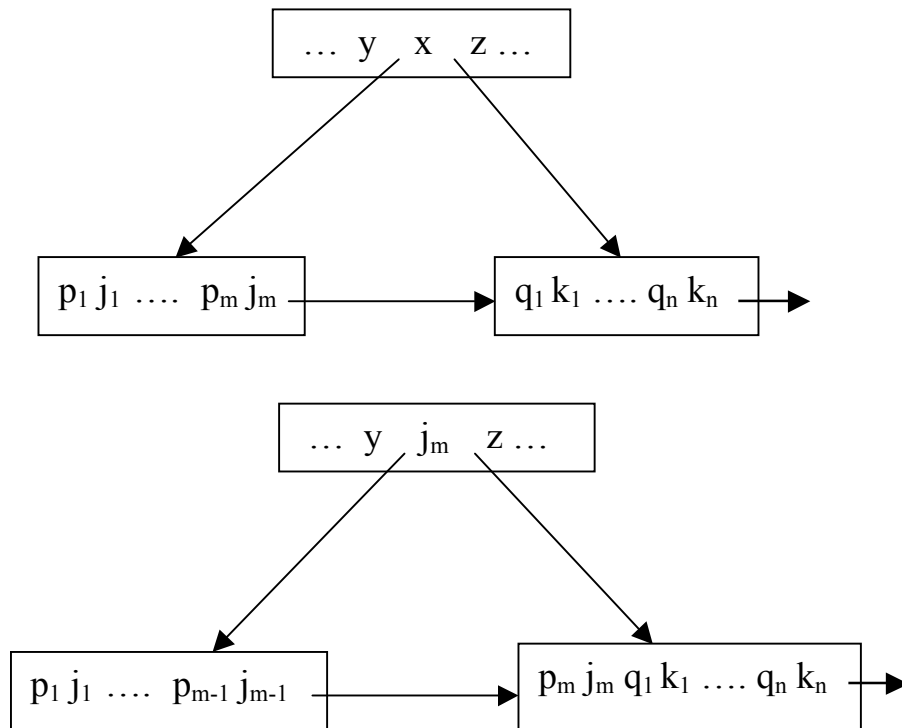
p_m and j_m move to the right node; j_m replaces x in the parent node. Can be used if $m \geq \lceil N/2 \rceil$ and $n < N-1$ to eliminate overflow in the left node or underflow in the right node.