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$$
\begin{array}{lll}
\min & \sum_{j=1}^{m} y_j & \\
& \sum_{j=1}^{m} x_{ij} = 1 & i = 1, \ldots, n \\
& x_{ij} + x_{hj} \leq 1 & i = 1, \ldots, n-1 \quad , \quad h \in S(i) \quad , \quad j = 1, \ldots, m \\
& y_j \geq x_{ij} & i = 1, \ldots, n \quad , \quad j = 1, \ldots, m \\
& x_{ij} \in \{0, 1\} & i = 1, \ldots, n \quad , \quad j = 1, \ldots, m \\
& y_j \in \{0, 1\} & j = 1, \ldots, m
\end{array}
$$