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Logical and Inequality Implications for Reducing the Size and Difficulty of Quadratic Unconstrained Binary Optimization Problems

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**Highlights**

- Preprocessing of quadratic unconstrained binary optimization problems is examined.
- Revisions to the original manuscript were made based on reviewer comments.
- Additional testing on benchmark test sets was performed.
- Additional references provided by the reviewers are discussed.
- Clarifications in the text and the notation based on reviewer input were made.

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