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$$X.sup \ge s * \sum_{i=1}^{n} |DB_i| \qquad (1)$$

$$\sum_{i=1}^{n} X.sup_i \ge \sum_{i=1}^{n} s^* |DB_i| \qquad (2)$$

$$\sum_{i=1}^{n} (X.sup_i - s^* |DB_i|) \ge 0$$
Note that checking inequality (1) is equivalent to checking inequality (3)









































