

$$\min \sum_{i=1}^m x_i$$

$$x_i = 1 \text{ if selected} \\ = 0 \text{ otherwise}$$

May 1, 2012
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$$\text{s.t. } \sum_{(hr, ht) \in S_j} x_r x_t \geq 1, \quad 1 \leq j \leq n \\ x_i = 0 \text{ or } 1, \quad 1 \leq i \leq m$$

$$\min \sum_{i=1}^m x_i$$

$$\text{s.t. } \sum_{(hr, ht) \in S_j} \left\lfloor \frac{x_r + x_t}{2} \right\rfloor \geq 1, \quad 1 \leq j \leq n \quad \text{by Vincent on 4/30/2012} \\ x_i = 0 \text{ or } 1, \quad 1 \leq i \leq m$$

$$\min \sum_{i=1}^m x_i$$

$$\text{s.t. } \sum_{(hr, ht) \in S_j} w_{jrt} = 1, \quad w_{jrt} = 0 \text{ or } 1 \\ x_r \geq w_{jrt} \quad \forall (hr, ht) \in S_j \\ x_t \geq w_{jrt} \\ 1 \leq j \leq n \\ x_i = 0 \text{ or } 1, \quad 1 \leq i \leq m$$