

$$\min \sum_{e \in E} c_e x_e$$

Subject to

$$\sum_{e \in \delta(v)}^n x_e = 2, \quad v \in V$$

$$x_e = 0 \text{ ou } 1, \quad e \in E$$

$$\sum_{e \in E(S)} x_e \leq |S| - 1 \quad \forall S \subseteq V, |S| \geq 2$$