

$x[i, j]$ indicates whether item i is packed into bin j
 $y[j]$ indicates whether bin j is used

$$\min \sum_{j=1}^n y[j]$$

Kapazität
der Bins

$$\text{s.t.} \quad \sum_{j=1}^{\text{len}(\text{bins})} \left(\sum_{i=1}^{\text{len}(\text{items})} x[i, j] \cdot \text{weight}[i] \right) \leq \text{capacity}[j] y[j]$$

Konflikte

$$\sum_{j=1}^{\text{len}(\text{bins})} \left(\sum_{i, h}^{\text{len}(\text{conflicts})} x[j, h] + x[j, i] \right) = 1$$

$$\sum_{i=1}^{\text{len}(\text{items})} \sum_{j=1}^{\text{len}(\text{bins})} x[i, j] = 1$$