$$\text{maximiza} \quad \sum_{j=1}^{m} w_j * b_j$$

$$\text{sujeito a:} \quad \sum_{i=1}^{n} x_i * s_{ij} - b_j \geq ns_j \quad , \forall j$$

$$\sum_{i=1}^{n} x_i * h_{ij} \geq nh_j \quad , \forall j$$

$$b_j, x_i \in 0, 1$$