

$$\begin{aligned}
&\text{maximiza} && \sum_{j=1}^m w_j * b_j \\
&\text{sujeito a:} && \sum_{i=1}^n x_i * s_{ij} - b_j \geq ns_j \quad , \forall j \\
&&& \sum_{i=1}^n x_i * h_{ij} \geq nh_j \quad , \forall j \\
&&& b_j, x_i \in 0, 1
\end{aligned}$$