Rules

Cols Ordering

$$\text{Score}_i = 1000 \cdot P + 100 \cdot \log(1 + |\text{Obj}_i|) + 10 \cdot \#occurrences$$

Components

1. **Type Priority (P):**
   Assign priorities to variable types:
   - **Binary Variables ($VType = \text{Binary}$):** $P = 3$
   - **Integer Variables ($VType = \text{Integer}$):** $P = 2$
   - **Continuous Variables ($VType = \text{Continuous}$):** $P = 1$
2. **Objective Coefficient ($|\text{Obj}_i|$):**
   Variables with larger absolute contributions to the objective function should have a higher score.

Rows Ordering

$$\text{Score}_j = 1000 \cdot P + 100 \cdot \log(1 + |\text{RHS}_j|) \cdot 10 + \sum (\log(1 + |\gamma_j|) + 1 \cdot \log(1 + |\text{Range}_j|)$$

Components

1. **Type Priority (P):**
   Assign priorities to variable types:
   - **> :** $P = 3$
   - **= :** $P = 2$
   - **< :** $P = 1$
2. **RHS ($|\text{RHS}_j|$):**
   RHS variables with larger absolute contribution should have a higher score.
3. **Row Coefficient ($|\gamma_j|$):**
   Row variables with larger absolute contributions should have a higher score.