



Candidate regulator sets of $v_j-t_{(p+1)} \leftarrow$
 $\text{Powerset}(\{v_i-t_p : (v_i, v_j) \in \text{Edgeset}(\mathcal{G}_{CLR})\})$



Find out a regulator set with the maximum BIC score by
 computing the scores of all candidate regulator sets, using data
 $\mathcal{D}_{(\nu; \{t_p, t_{(p+1)}\}; \mathcal{S})}$ with the *Bene* algorithm.



Once the regulator set is finalized, for each node in it, add an
 edge in \mathcal{G} (Figure 1, main paper) from that node to $v_j-t_{(p+1)}$.



$j \leftarrow (j + 1)$
 (next gene, if any)

