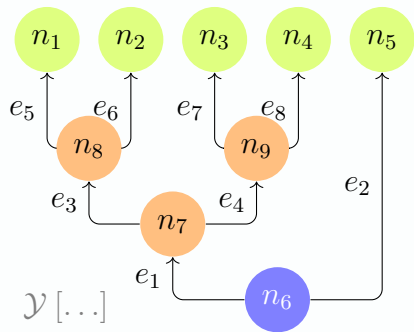


Phylo Object \mathcal{P} Graph Representation \mathcal{G}

\mathcal{E}	Start	End	\mathcal{X}	Anc	Des1	Des2	\mathcal{Y}
e_1	n_6	n_7	n_1	e_5	0	0	$\begin{bmatrix} y_1 \\ y_2 \\ \vdots \\ y_n \end{bmatrix}$
e_2	n_6	n_5	n_2	e_6	0	0	
e_3	n_7	n_8	n_3	e_7	0	0	
e_4	n_7	n_9	n_4	e_8	0	0	
e_5	n_8	n_1	n_5	e_2	0	0	
e_6	n_8	n_2	n_6	0	e_1	e_2	
e_7	n_9	n_3	n_7	e_1	e_3	e_4	
e_8	n_9	n_4	n_8	e_3	e_5	e_6	
			n_9	e_4	e_7	e_8	