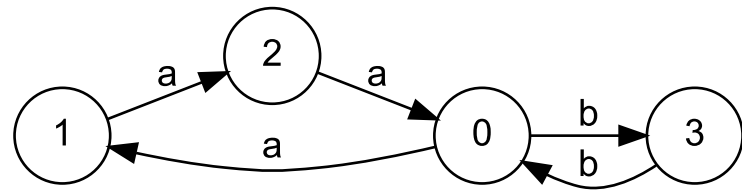


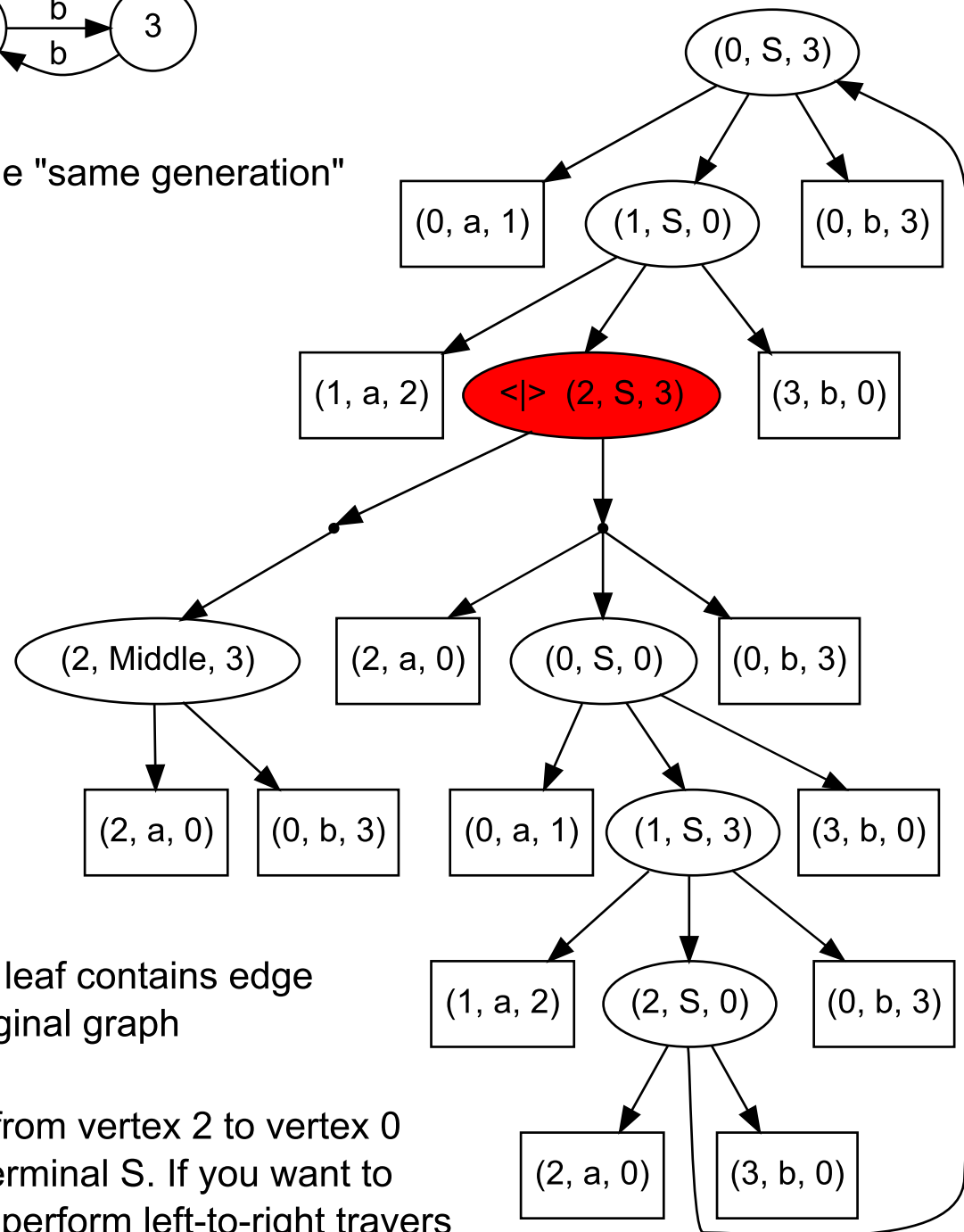
Graph-structured data



Context-free grammar for the "same generation" query with marked middle:

$S \rightarrow a S b$
 $S \rightarrow \text{Middle}$
 $\text{Middle} \rightarrow a b$

Query result: compressed parsing forest for all matched paths. Paths can be extracted by forest traversal.



Each leaf contains edge of original graph

There exists path from vertex 2 to vertex 0 derived from nonterminal S. If you want to get this path, then perform left-to-right travers from this vertex