Application	GraphIn Phases and APIs						
		Phase I	**Phase II**	**Phase III**	**Phase IV**		**Phase V**
	Type	*meta_computation()*	*build_inconsistency_list()*	*CheckProperty()*	*frontier_activate()*	*update_inconsistency_list()*	*merge_state()*
BFS	All-merge	Parent id and vertex degree	**1.** Inconsistency list contains vertices with incorrect depth values with MIN_PRIORITY. **2.** G' = G	Check BFS depth property	Activate inconsistent vertices with minimum depth value-Ramalingam and Reps	Remove frontier vertices and add inconsistent successors to inconsistency list	**1.** Apply all insertions and deletions to G.
Connected Components (CC)	Delete-only-merge	Vertex degree	**1.** For each edge insertion add an edge in G' if the endpoints belong to different components. **2.** G' is also known as component graph.	Check disjoint component property	Activate all the vertices in G'	Clear inconsistency list	**1.** Apply only deletions to G. **2.** Relabel components in G using G'
Clustering Coefficient (CCof)	No-merge	Vertex degree	**1.** Inconsistency list contains endpoints of every edge inserted and/or deleted and their respective neighbors. **2.** G' consists of inconsistent vertices and edge incident on them in G.	Check vertex degree property	Activate all the vertices in G'	Clear inconsistency list	**1.** Applying insertions and deletions to G not required **2.** Update triangle counts and degree information in G using G'