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A graph is a pair consisting of a set of nodes and a set of directed edges, each of which is a pair of nodes. It is represented by a record with node field and edge field.

7 IsGraph(G) \triangleq

8 \land G = [node \mapsto G.node, edge \mapsto G.edge]

10 EmptyGraph \triangleq [node \mapsto \{\{\}\}\}, edge \mapsto \{\}]

11 g \oplus h \triangleq A union (in terms of set) of two graphs g and h.

12 [node \mapsto g.node \cup h.node, edge \mapsto g.edge \cup h.edge]

14 \land Modification History
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