———————————— MODULE *GraphsUtil* ————————————

A module that defines graphs and the operations on them.

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.

$IsGraph(G) \triangleq$

    $\wedge \quad G = [node \mapsto G.node,\ edge \mapsto G.edge]$

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

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

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

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\ * Modification History

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