```
Graph (N, G): trait
  % n1 ⟨ g ⟩ n2 means that there is
  % an edge from n1 to n2 in g
  includes Relation (N for E, G for R)
  introduces
    nodes, undirected: G → G
    isPath: N, N, G → Bool
    stronglyConnected, weaklyConnected: G → Bool
  asserts ∀ n1, n2: N, g: G
    undirected(g) == g ∪ (g^-1);
    nodes(g) == dom(g) ∪ range(g);
    isPath(n1, n2, g) == n1 ⟨ g* ⟩ n2;
    stronglyConnected(g) == g* = nodes(g) × nodes(g);
    weaklyConnected(g) ==
      stronglyConnected(undirected(g))
  implies
    ∀ n1, n2: N, g: G
      (stronglyConnected(g) ∧ n1 ∈ nodes(g)
          ∧ n2 ∈ nodes(g))
        ⇒ isPath(n1, n2, g)
```