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Jack E. Graver and **Mark E. Watkins*** (mewatkin@syr.edu), Mathematics Department,
Syracuse University, Syracuse, NY 13244-1150. *Lobe- and Edge-Transitivity of Countable Graphs of
Connectivity 1*. Preliminary report.

Let \mathbb{G} be the class of countably infinite graphs of connectivity 1. We give necessary and sufficient conditions for a graph in \mathbb{G} to be lobe-transitive. We further show that given any biconnected graph L , any subgroup H of $\text{Aut}(L)$, and a prescribed list of multiplicities of H -orbits, there exists a unique lobe-transitive graph $G \in \mathbb{G}$ whose lobes are isomorphic to L and such that the multiset of H -orbits of copies of L to which each vertex of G belongs is determined by the given list. These results are then applied to give necessary and sufficient conditions for a graph in \mathbb{G} to be edge-transitive. (Received September 13, 2018)