

NOTE

MAXIMAL BUTTONINGS OF TREES

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Abstract

A *buttoning* of a tree that has vertices v_1, v_2, \dots, v_n is a closed walk that starts at v_1 and travels along the shortest path in the tree to v_2 , and then along the shortest path to v_3 , and so forth, finishing with the shortest path from v_n to v_1 . Inspired by a problem about buttoning a shirt inefficiently, we determine the maximum length of buttonings of trees.

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