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Jianyuan Zhong* (kzhong@csus.edu), California State University Sacramento, Department of Math. & Stat., 6000 J Street, Sacramento, CA 95819, and **Bin Lu**. *A revolute 9-chain can interlock with a flexible open 2-chain*. Preliminary report.

It is an open problem posed in [1], to find the minimum k such that a revolute k -chain can interlock with a flexible open 2-chain. In this paper, we present a revolute 9-chain in a triangular frame and prove that it interlocks with a flexible open 2-chain. We also discuss reasons that we believe 9 is the minimum k for the open problem.

Reference: [1] Interlocked open and closed linkages with few joints, *Comp. Geom. Theory, Appl.*, 26(1): 37–45, 2003. (Received September 03, 2014)