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One of the open problems in computational geometry is: what is the minimal number k such that an open, flexible k -chain can interlock with a flexible 2-chain? In this paper, we establish that k exists, and in particular, that $k \leq 11$ by proving that a flexible 2-chain can interlock with a flexible, open 11-chain. We offer some reasons to believe that $k = 11$ is minimal. (Received January 31, 2006)