## Problem

In a group of $N$ people, each person possess an amount of money measured in whole dollars. For any two persons $A$ and $B, A$ is permitted to give any amount of money to $B$ as long as $A$ will still have more money than $B$ after the exchange. Prove that only a finite number of such transfers can be made.
(Math Problem of the Week, 6/22/97)
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