**Name:** ___My Name Goes Here___

**Revision Problem (Homework #2 Problem #4):** Let $a, b, c \in \mathbb{Z}$. Assume $a$ divides $b$, $a$ divides $c$, and $\gcd(b, c) = 1$ (i.e., $b$ and $c$ are relatively prime). Show $a$ divides $bc$.

**Proof:** THIS IS MY PROOF $\square$