CS201: Math for CS I/Discrete Mathematics Assignment 2 Solution

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1. Problem 1 Solution

1.1 Part (a)

We are given a set S=N and a relation $a\mid b$. **To Prove:** Relation $R=a\mid b$ is equivalence relation $\forall a\in N,\,aRa,\,a\mid a$ satisfies as a is divisible by a, thus R is reflexive. $\forall a\in N,\,aRb\wedge bRa\Rightarrow a$, as if