

CSE 547

Chapter 4 problem 6

# What does $a \equiv b \pmod{0}$ mean?

From 4.35, we have

$$a \equiv b \pmod{m} \Leftrightarrow a \bmod m = b \bmod m$$

Therefore, our problem reduces to,

$$a \bmod 0 = b \bmod 0$$

From 3.22 we have  $x \bmod 0 = x$

ie.,  **$a \equiv b \pmod{0}$  means  $a = b$**

**END**