EXTENDS Integers

 $Divides(p, n) \stackrel{\triangle}{=} \exists q \in Int : n = q * p$ 

MODULE GCD

 $DivisorsOf(n) \triangleq \{p \in Int : Divides(p, n)\}$ 

 $GCD(m, n) \stackrel{\triangle}{=} SetMax(DivisorsOf(m) \cap DivisorsOf(n))$  gcd of m and n  $SetGCD(T) \triangleq SetMax(\{d \in Int : \forall t \in T : Divides(d, t)\})$