

MODULE <i>GCD</i>	
EXTENDS <i>Integers</i>	
$Divides(p, n) \triangleq$ $\exists q \in Int :$ $n = q * p$	For integers $p$ and $n$ , equals TRUE iff $p$ divides $n$ – which I think is really neat; don't you?
$DivisorsOf(n) \triangleq \{p \in Int : Divides(p, n)\}$ $SetMax(S) \triangleq$ CHOOSE $i \in S : \forall j \in S : i \geq j$ <div style="background-color: #f0f0f0; padding: 2px; display: inline-block;">This is all text</div> $GCD(m, n) \triangleq$ $SetMax(DivisorsOf(m) \cap DivisorsOf(n))$	

\ \* Modification History  
 \ \* Last modified Sat May 31 15:55:06 CST 2014 by *jing*  
 \ \* Created Sat May 31 09:50:23 CST 2014 by *jing*