- module GCD -

```
EXTENDS Integers
Divides(p, n) \triangleq \exists q \in 1 ... n : n = q * p
DivisorsOf(n) \triangleq \{p \in 1 ... n : Divides(p, n)\}
SetMax(S) \triangleq CHOOSE \ i \in S : \forall j \in S : i \geq j
GCD(m, n) \triangleq SetMax(DivisorsOf(m) \cap DivisorsOf(n))
```

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