```
EXTENDS Integers

Divides(p, n) == \E q \in 0..n : n = q * p

DivisorsOf(n) == {p \in 0..n : Divides(p, n)}

Max(S) == CHOOSE i \in S : \A j \in S : i >= j

GCD(m, n) == Max(DivisorsOf(m) \cap DivisorsOf(n))
-------------------------------------------------------------------
CONSTANTS M, N

ASSUME MNPosInt == /\ M \in Nat \ {0}
                   /\ N \in Nat \ {0}
```