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Exercise 1.
Leap Year
Model Math
p \wedge (\sim q \vee r)
p is divisible by 4
Q is not divisible by 100
R is divisible by 400
Algorithm
        Input(year)
        isLeap = false
        Mod (year, 4): result, residue
        If(residue == 0)
                Mod(year,400):result,residue_400
                Mod(year,100):result,residue_100
                If(residue_400 == 0 || residue_100 != 0)
                        IsLeap=true
                Else
                        isLeap = false
        if(isLeap == true)
                print "The year is leap"
        else
                print "The year is not leap"
Mod(dividend, divisor):result, residue
        result=0
        Mientras (dividend >=divisor)
                dividend = dividend - divisor
                result++;
        residue=dividend
```