Unsigned Division Algorithm

This algorithm computes a quotient (quo) and a remainder (rem) when dividing a non-negative numerator (num) by a positive divisor (div): (quo, rem) 🡨 (num / div, num % div).

quo 🡨 0

rem 🡨 num

while ( rem >= div )

{

quo 🡨 quo + 1

rem 🡨 rem – div

}