

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): $(\text{quo}, \text{rem}) \leftarrow (\text{num} / \text{div}, \text{num} \% \text{div})$.

```
quo ← 0
rem ← num
while ( rem >= div )
{
    quo ← quo + 1
    rem ← rem - div
}
```