Divisibility

OFLTU

bis divisor of a

bla

Division Algo

$$a=11 + 111$$

$$n=7$$

$$4 = 1x7+4$$

$$d = \gcd(a,b)$$

$$a = 100 \quad b = 50$$

$$d = \gcd(100,50)$$

$$q_1 \quad b \quad r_1$$

$$a = q_1b + r_1 = 7 \quad 100 = 2 \times 50 + 0$$

$$d = 50$$

- B) a= 1071 b= 462 gcd (1071, 462)
 - 1071 = 2x462+147 1071 = 2x462+147 Divide b by 11
 - 2 b= 9251 + 52 462 = 3×147+21 Divide 51 by 52
 - $\begin{array}{c} (3) \quad r_1 = 93^{62} + 63 \\ 147 = 7 \times 21 + 0 \\ d = 21 \end{array}$