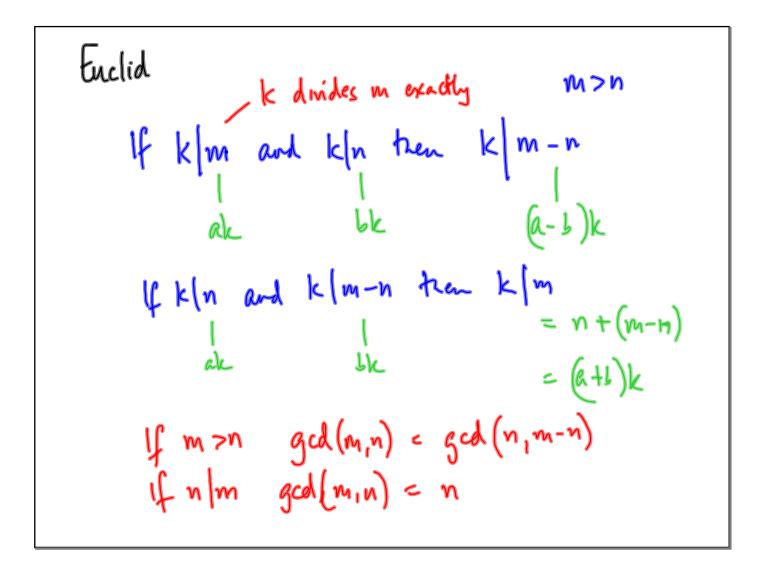
Factors of n are smaller than n
range:
$$1, 2, ..., n$$

try them all out
 \rightarrow list of divisors
 $24 - [1, 2, 3, 4, 6, 8, 12, 24]$



$$gcd(24,54) = gcd(24,30)$$

= $gcd(24,6) = 6$
Report 6 $b(a$
Suspend $gcd(24,54)$ to compute $gcd(24,30)$
- Suspend $gcd(24,30)$ to compute $gcd(24,6)$
- Report 6

$$gcd(101,2) = gcd(2,99) = gcd(2,99) = ...$$

.... gcd(2,3) = gcd(2,1)=1
Refinement: m>n
$$gcd(m,n) = gcd(n, m \mod n)$$

$$remainder$$
$$gcd(101,2) = gcd(2,1) = 1$$

gd-refined
$$(m,n)$$

if $n|m$
report n
otherwise
report gcd $(n, mmod n)$
gcd $(t2,24) = gcd (24,12) = 12$