7. EUCLIDIAN ALGORITHM
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comment	Every pair of numbers a, b not both zero have a positive greatest common divisor: gcd;
procedure	EUC (a, b) = : (gcd)
begin	
EUC:	
if	(a = 0)
begin	gcd := b ; **return end**
if	(b = 0)
begin	gcd := a ; **return end**
	r2 := a
	r1 := b
here:	g := r2/r1
comment	Assumption is made that truncation takes place in the above statement;
	r := r2 − r1 × g
if	(r = 0)
begin	gcd := r1 ; **return end**
begin	r2 := r1
	r1 := r
	go to here **end**
integer	(g)
end	