



Successive
Fibonacci
numbers
are

the worst

case

scenario.

21

$$21 = 1 \cdot 13 + 8$$

$$13 = 1 \cdot 8 + 5$$

$$8 = 1 \cdot 5 + 3$$

$$5 = 1 \cdot 3 + 2$$

$$3 = 1 \cdot 2 + 1$$

$$2 = 2 \cdot 1 + 0$$

We can only cast out
one square at a time,

so we make slow

progress - the slowest

progress - the two

numbers are relatively prime: $\gcd(F(n), F(n-1)) = 1$

