Find the largest prime factor of 600851475143

Divide by successive primes. Step when the current prime equals the current number.

```
require 'prime'
num = 600851475143
prime = 2
loop do
  while I num % pame).zero?
     num/= prime
  prime = next.prime(pnme)
  return prime , f prime == num
end
def next-prime (num)
   return 3 if num == 2
  100p do
     hum += 2
     return num if Prime. prime? (num)
  ena
```