

# Problem\_3

October 22, 2020

## 1 Problem 3

### 1.0.1 Largest prime factor

The prime factors of 13195 are 5, 7, 13 and 29.

What is the largest prime factor of the number 600851475143 ?

```
[15]: def MaxPrim (n):  
        i =2  
        """  
        Recorre los números anteriores a n y si es divisible lo hace y se actualiza  
        ↪ el valor de n  
        """  
        while i < n:  
            if n % i == 0:  
                n/= i  
                i= 2  
            i+= 1  
        return (int(n))  
  
MaxPrim(600851475143)
```

[15]: 6857