

$$\bar{P}_n = a_0 + \frac{1}{a_1 + \frac{1}{a_2 + \frac{1}{\dots + \frac{1}{a_{m-1} + \frac{1}{a_m}}}}}$$

$$a_0 = n$$

$$n = \prod_{k=1}^m a_k$$

$$m = \Omega(n)$$

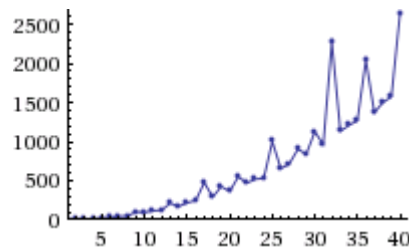
$$a_1 \leq a_2 \leq \dots \leq a_{m-1} \leq a_m$$

$$\sigma_0(a_k) = 2, k > 0$$

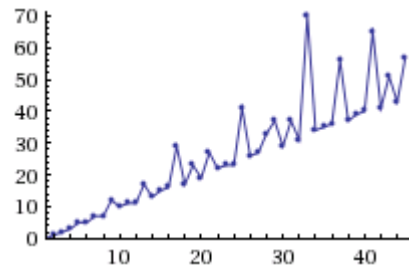
$$\bar{P}_n = \frac{n^2 + 1}{n} \Rightarrow \sigma_0(n) = 2$$

$$\{\bar{P}_n\}_{n=2}^{\infty} = \left\{ \frac{5}{2}, \frac{10}{3}, \frac{22}{5}, \frac{26}{5}, \frac{45}{7}, \frac{50}{7}, \frac{101}{12}, \frac{93}{10}, \frac{115}{11}, \frac{122}{11}, \dots \right\}$$

Numerators



Denominators



Example

$$\bar{P}_6 = \frac{45}{7} = 6 + \frac{1}{2 + \frac{1}{3}} \Rightarrow 2 \cdot 3 = 6, \Omega(6) = 2, \sigma_0(2) = \sigma_0(3) = 2$$