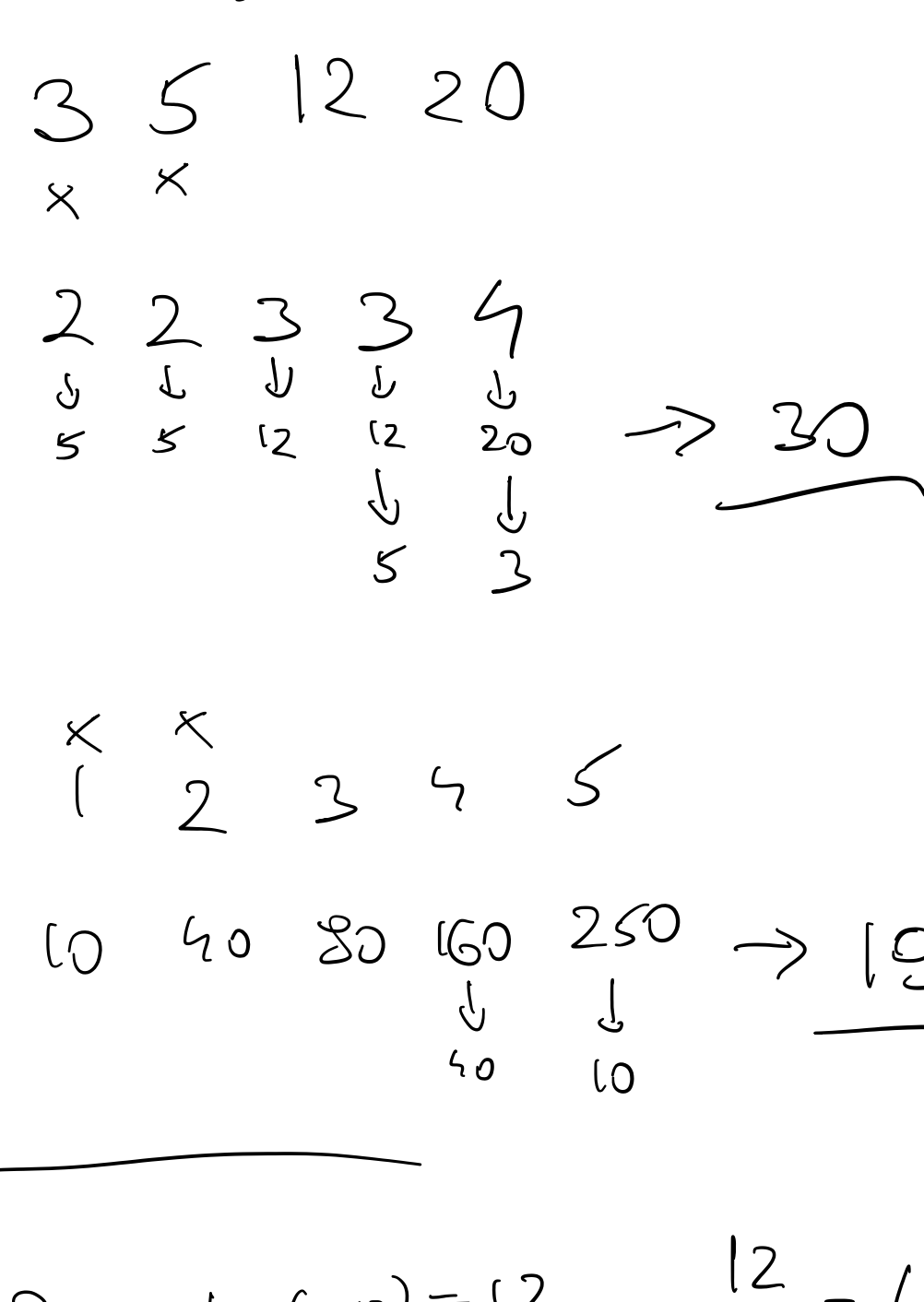


min cost



$$\begin{array}{ll} 3 & lcm(3,12)=12 \\ 12 & gcd(3,12)=3 \end{array} \quad \frac{12}{3} = 4 = 2^2$$

$$\begin{array}{ll} l_1 & l_n \\ p_1 & p_n \end{array}$$

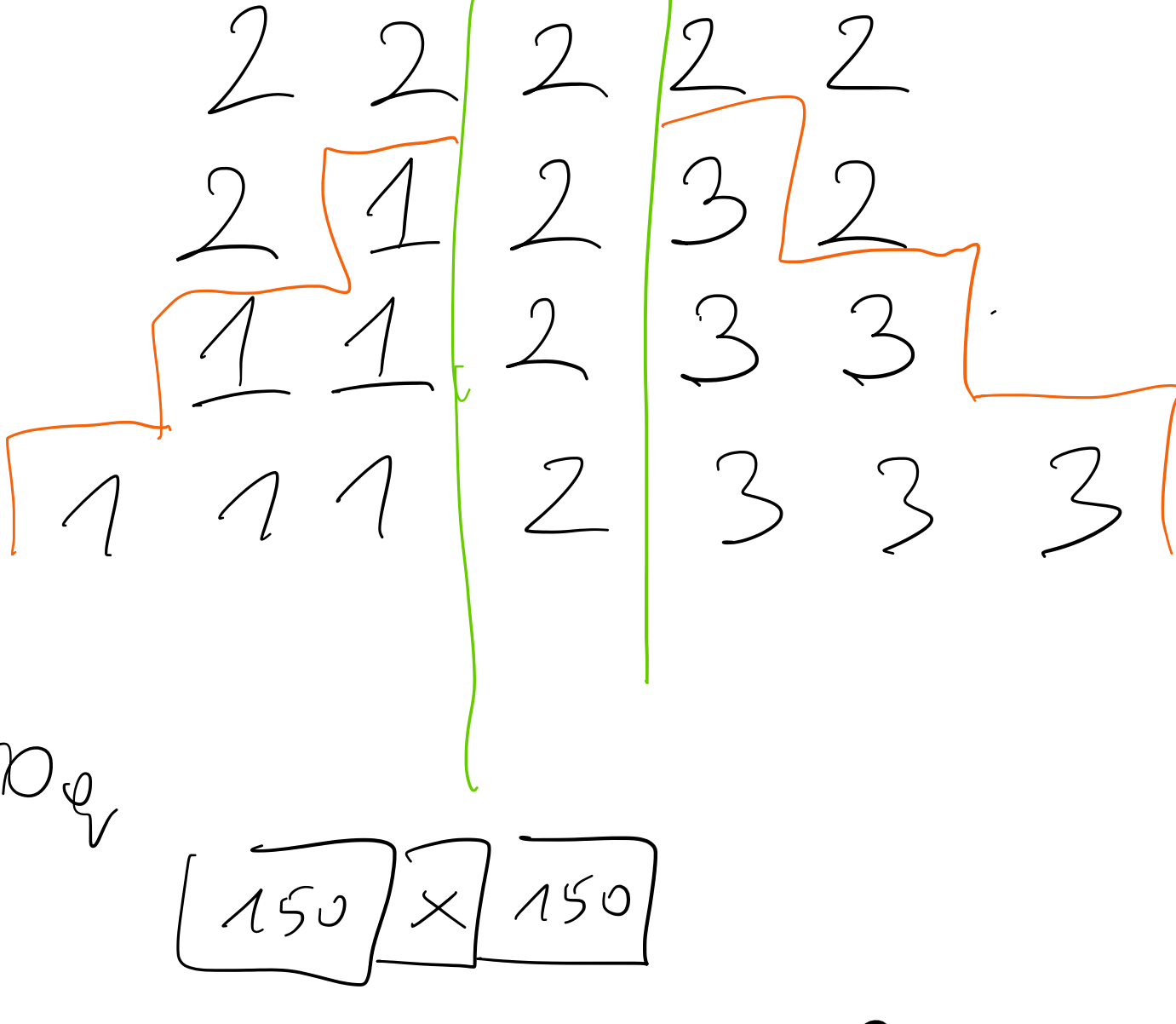
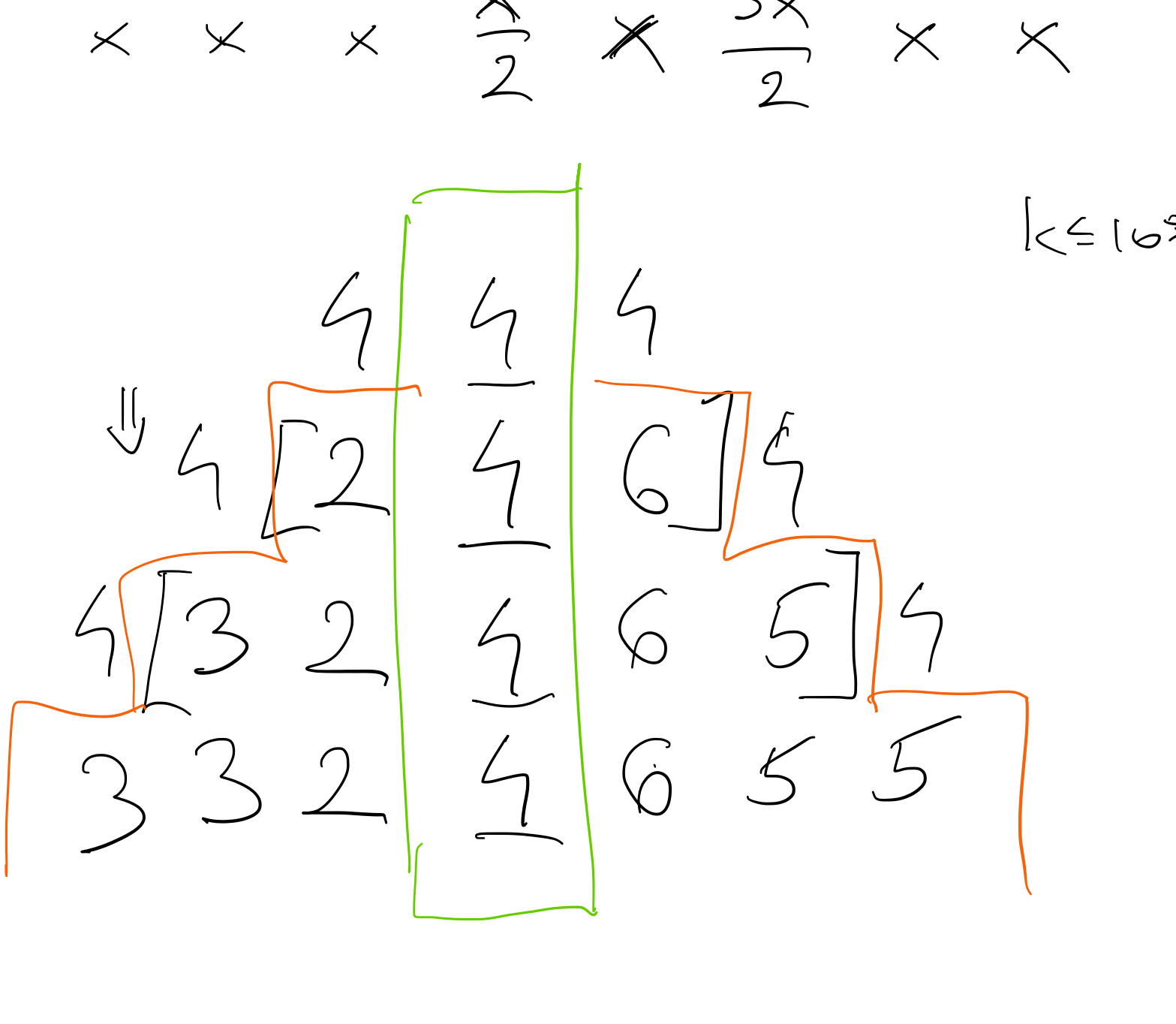
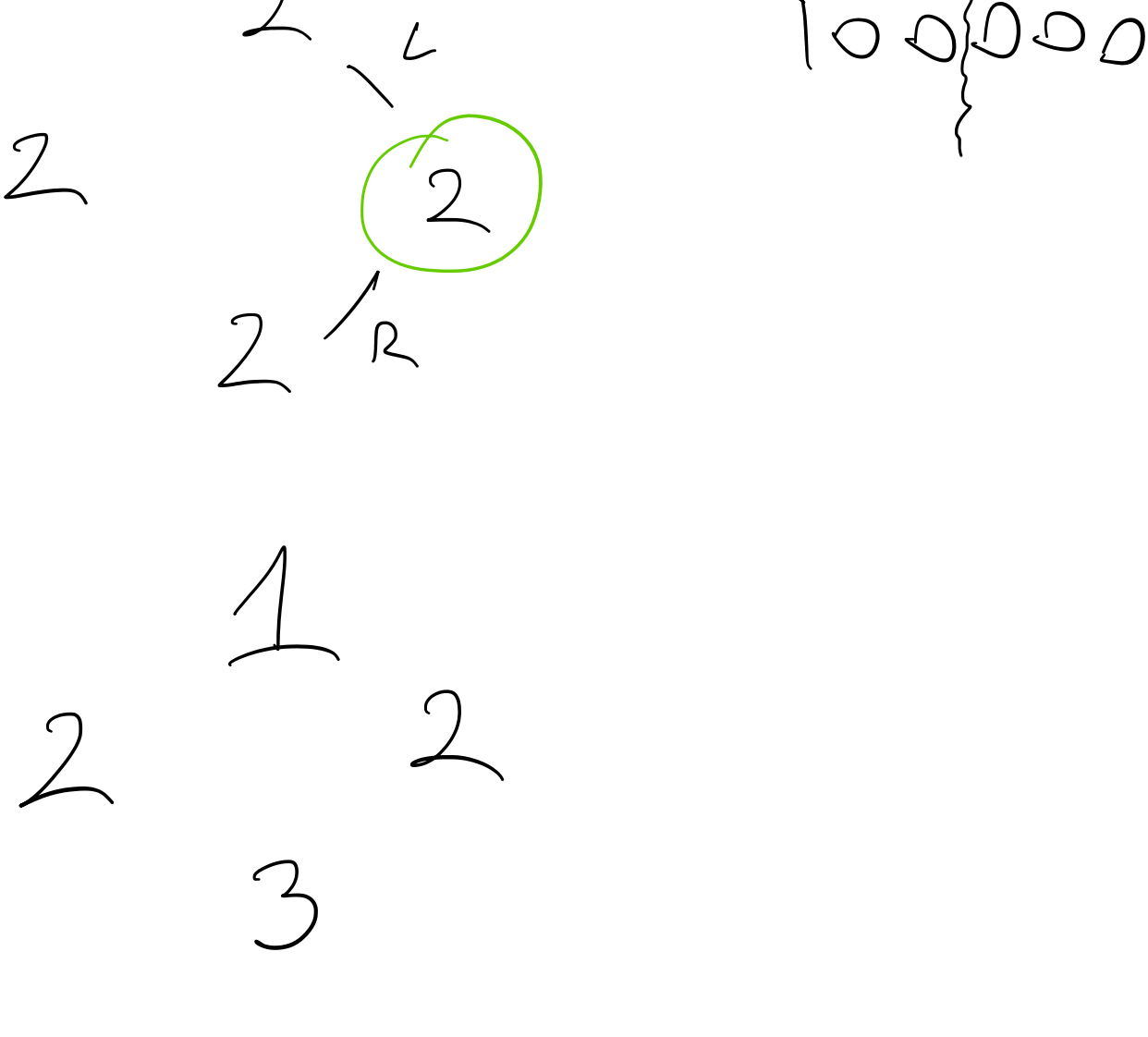
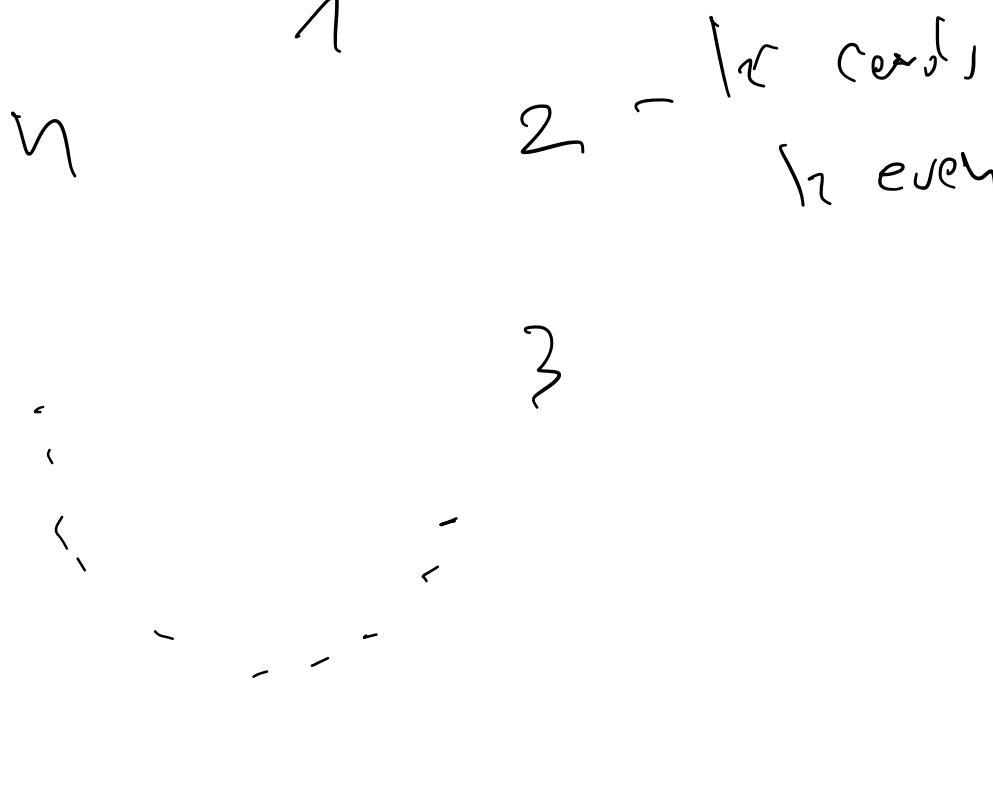
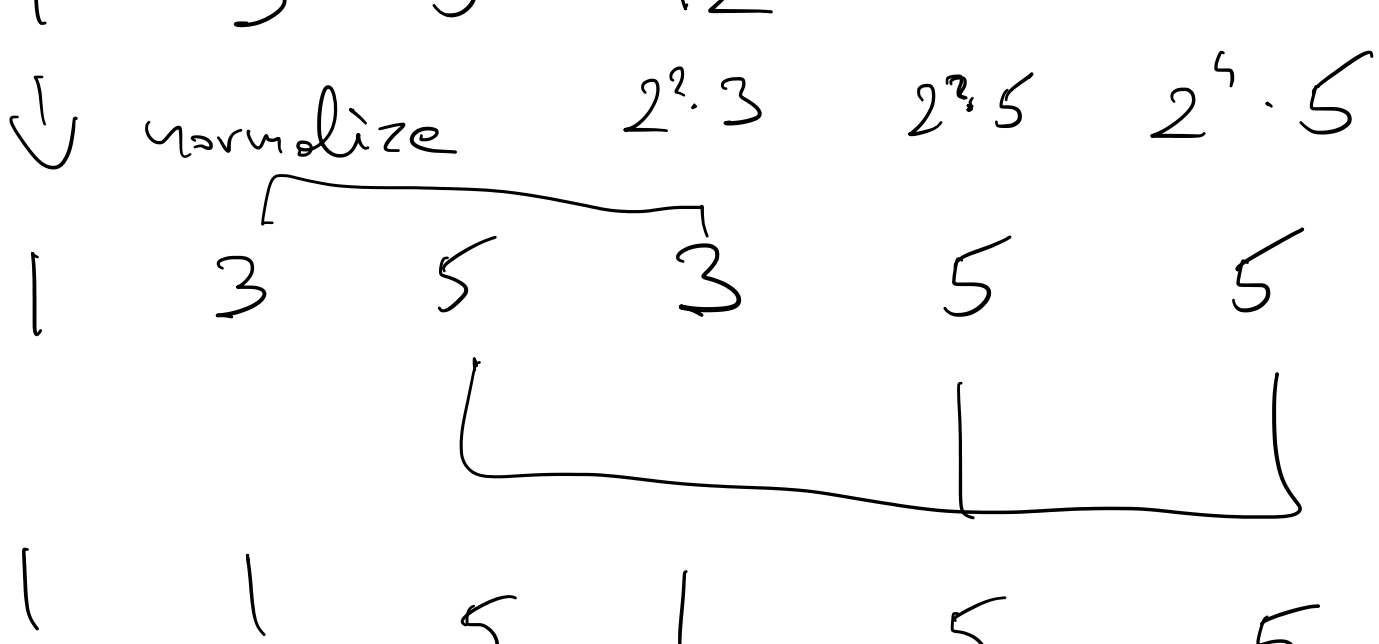
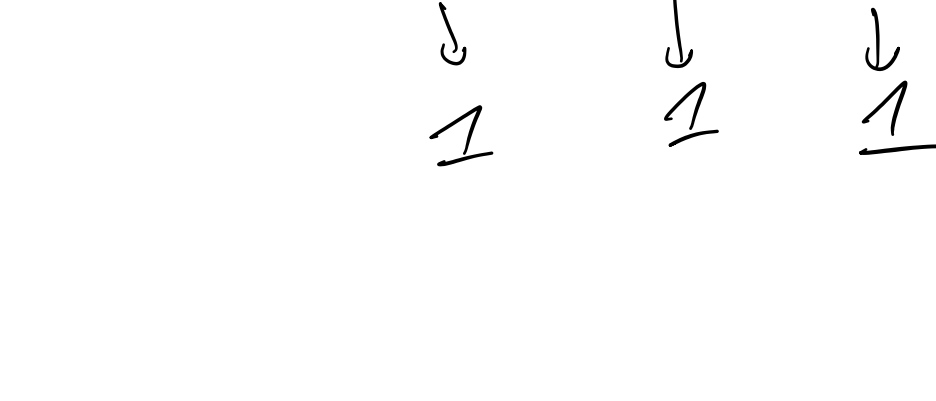
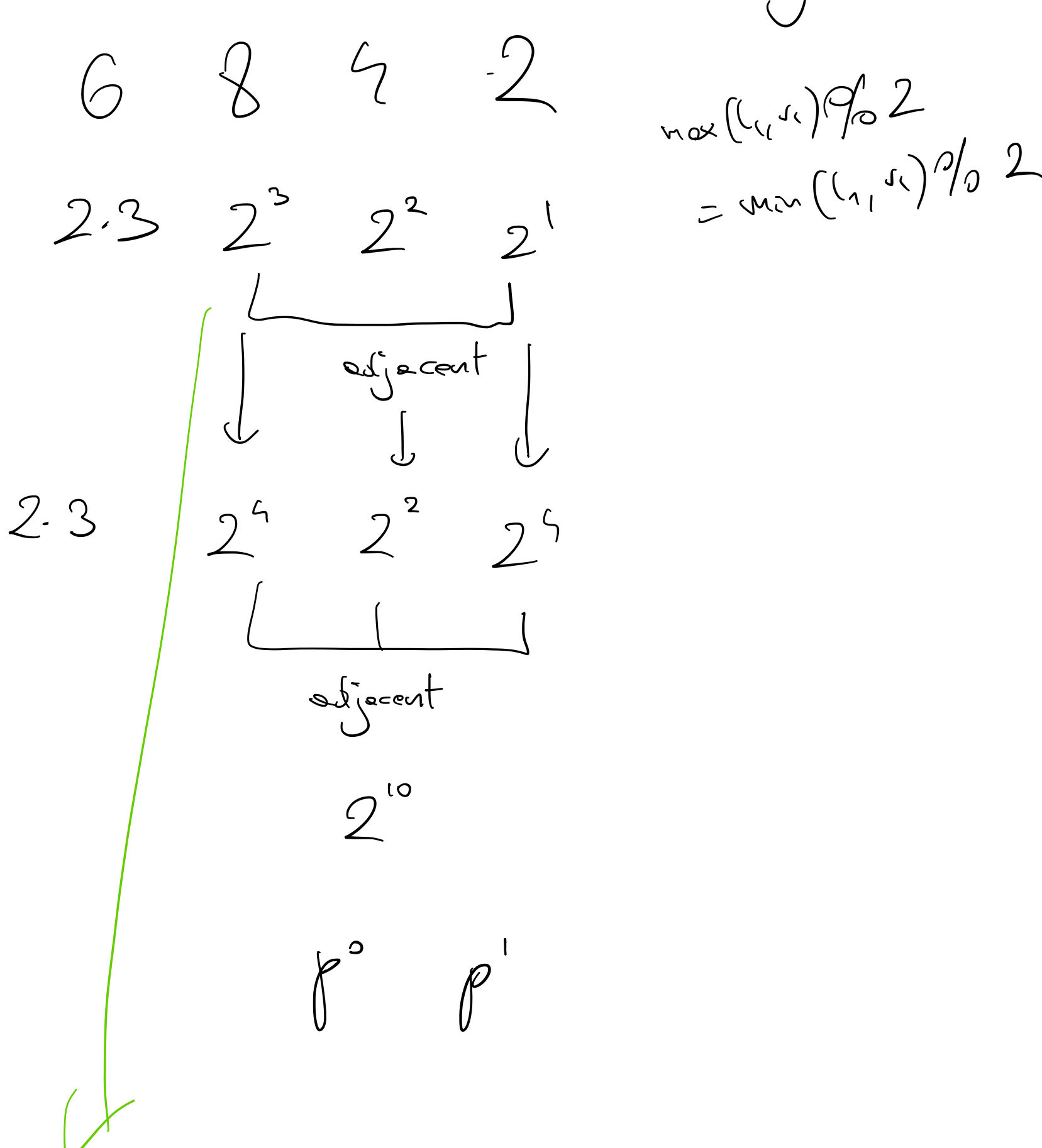
$$\begin{array}{ll} r_1 & r_n \\ p_1 & p_n \end{array}$$

$$lcm = p_1 \dots p_n$$

$$gcd = p_1 \dots p_n$$

$$\frac{lcm}{gcd} = p_1 \dots p_n$$

$$\forall i \in [1, n] \quad (\max(l_i, r_i) - \min(l_i, r_i)) \% 2 = 0$$



150q 150 \times 150

334 blocks = 668q

100q 100 \times 100

500 blocks

500q 500 \times 500

100 blocks = 200q to find block

max block size 1401

binary search : 11q

711q ?