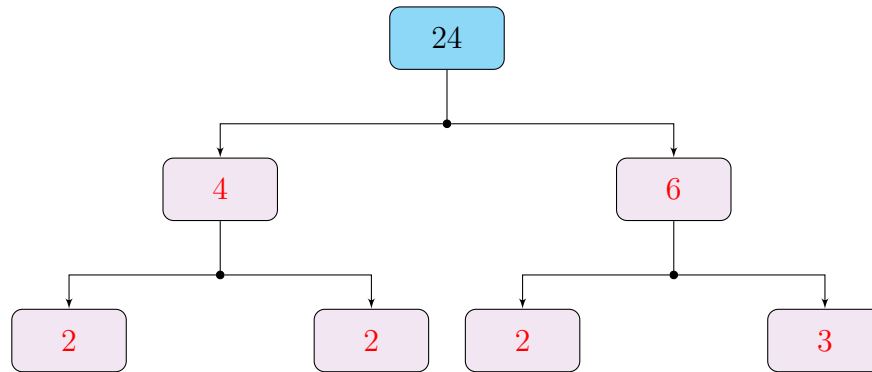


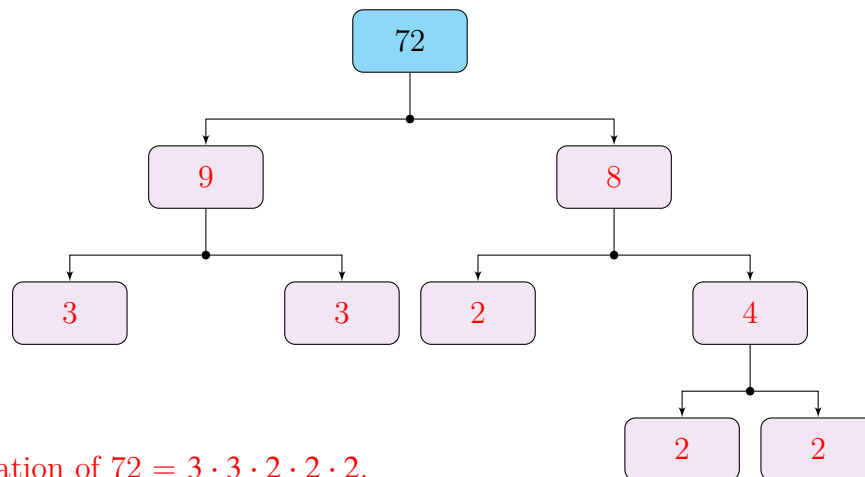
1.8. Prime and Composite Numbers

Problem 1: Find all the prime numbers (factors) for number 24.



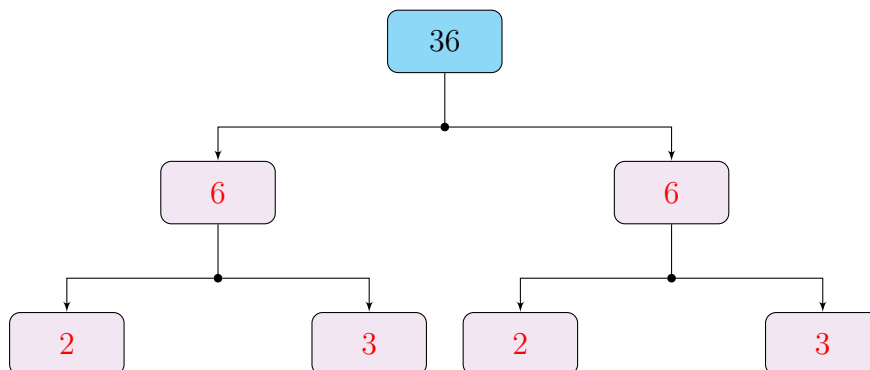
The prime factors of 24 are $2 \times 2 \times 2 \times 3$.

Problem 2: Find all the prime numbers (factors) for number 72.



The prime factorization of $72 = 3 \cdot 3 \cdot 2 \cdot 2 \cdot 2$.

Problem 3: Find all the prime numbers (factors) for number 36.



The prime factorization of 36 is $2 \times 2 \times 3 \times 3$.

Problem 4: Split numbers into prime factors.

$$\begin{array}{r|l} \text{a) } 160 & 2 \\ 80 & 2 \\ 40 & 2 \\ 20 & 2 \\ 10 & 2 \\ 5 & 5 \\ 1 & \end{array}$$

$$\begin{array}{r|l} \text{b) } 168 & 2 \\ 84 & 2 \\ 42 & 2 \\ 21 & 3 \\ 7 & 7 \\ 1 & \end{array}$$

$$\begin{array}{r|l} \text{c) } 120 & 2 \\ 60 & 2 \\ 30 & 2 \\ 15 & 3 \\ 5 & 5 \\ 1 & \end{array}$$

$$\begin{array}{r|l} \text{d) } 57 & 3 \\ 19 & 19 \\ 1 & \end{array}$$

$$\begin{array}{r|l} \text{e) } 102 & 2 \\ 51 & 3 \\ 17 & 17 \\ 1 & \end{array}$$

$$\begin{array}{r|l} \text{f) } 130 & 2 \\ 65 & 5 \\ 13 & 13 \\ 1 & \end{array}$$

$$\begin{array}{r|l} \text{g) } 162 & 2 \\ 81 & 3 \\ 27 & 3 \\ 9 & 3 \\ 3 & 3 \\ 1 & \end{array}$$

$$\begin{array}{r|l} \text{h) } 150 & 2 \\ 75 & 3 \\ 25 & 5 \\ 5 & 5 \\ 1 & \end{array}$$

$$\begin{array}{r|l} \text{i) } 99 & 3 \\ 33 & 3 \\ 11 & 11 \\ 1 & \end{array}$$

$$\begin{array}{r|l} \text{j) } 120 & 2 \\ 60 & 2 \\ 30 & 2 \\ 15 & 3 \\ 5 & 5 \\ 1 & \end{array}$$

$$\begin{array}{r|l} \text{k) } 100 & 2 \\ 50 & 2 \\ 25 & 5 \\ 5 & 5 \\ 1 & \end{array}$$

$$\begin{array}{r|l} \text{l) } 125 & 5 \\ 25 & 5 \\ 5 & 5 \\ 1 & \end{array}$$