

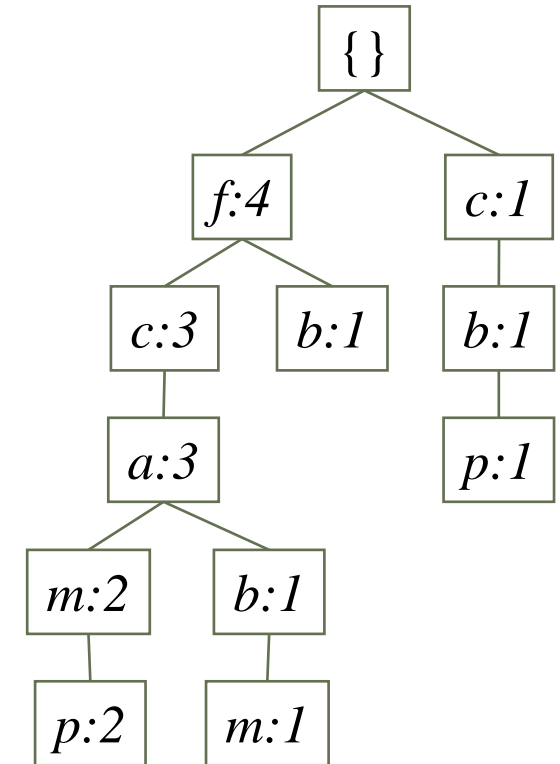


3.5. Efficient Pattern Mining Methods: FPGrowth: A Pattern Growth Approach In-Lecture Question

Question

Given the FP-tree, and $\text{min_sup} = 2$, which of following itemsets are frequent? Check all that apply.

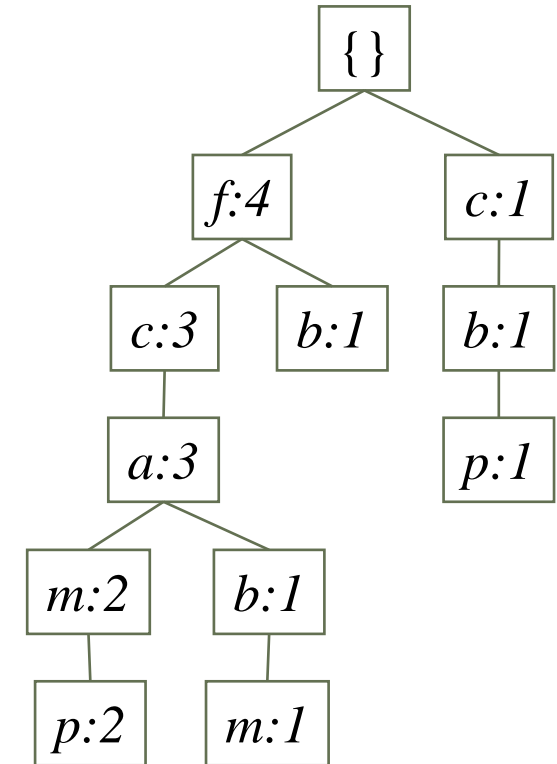
- ☐ {b, c}
- ☐ {b, p}
- ☐ {c, p}
- ☐ {f, b}
- ☐ {f, b, m}



Question

Given the FP-tree, and $\text{min_sup} = 2$, which of following itemsets are frequent? Check all that apply.

- ☐ {b, c}
- ☐ {b, p}
- ☐ {c, p}
- ☐ {f, b}
- ☐ {f, b, m}



- ☐ **Answers:** {b, c}, {c, p} and {f, b}
- ☐ **Explanation:** We can count the supports from the FP-tree. $\text{sup}(\{b, c\}) = 2$, $\text{sup}(\{b, p\}) = 1$, $\text{sup}(\{c, p\}) = 3$, $\text{sup}(\{f, b\}) = 2$, $\text{sup}(\{f, b, m\}) = 1$. Therefore, given $\text{min_sup} = 2$, {b, c}, {c, p}, and {f, b} are frequent.