

Lesson 2 Quiz

TOTAL POINTS 4

1. If we know the support of itemset $\{a, b\}$ is 10, which of the following numbers are the possible supports of itemset $\{a, b, c\}$? Select all that apply.

1 point

☒ 9

☐ 11

☒ 10

2. If we know the support of itemset $\{a\}$ is 50 and the support of itemset $\{a, b, c\}$ is 30, which of the following numbers are the possible supports of itemset $\{a, b\}$? Select all that apply.

1 point

☐ 100

☒ 50

☒ 10

☐ 5

☒ 30

3. Considering the Apriori algorithm, assume we have 5 items (A to E) in total. In the 1st scan, we find out **all** frequent items A, B, C, and E. How many size-2 (i.e., containing 2 items, e.g. A, B) itemsets should be considered in the 2nd scan, i.e., have potential to be size-2 frequent itemsets? Select all that apply.

1 point

☐ 4

☐ 25

☒ 6

☐ 10

4.

1 point

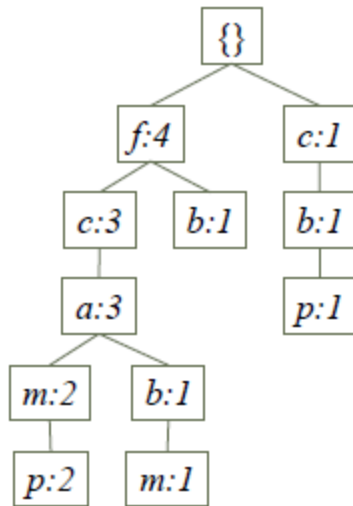


Figure 1: FP-Tree

Given the FP-tree as shown in Figure 1, what is the support of $\{c, p\}$?

- ☒ 3
- ☐ 4
- ☐ 1
- ☐ 2
- ☐ 5

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