

{b, c}	4
{b, e}	3
{c, e}	2

✓ (2)

2.4) Write down two association rules and their **confidence** and **interest** numbers. One of your association rule should be derived from a frequent pair (i.e., $X \rightarrow Y$), and the other one should be derived from a frequent triplet (i.e., $X, Y \rightarrow Z$) (4pts)

① ~~{a, b}~~ $C = \frac{4}{6} = \frac{2}{3} \leftarrow \text{confidence}$ $Pr(c) = \frac{4}{6} = \frac{2}{3}$
 $\{a, b\} \rightarrow c$
 $\text{interest} = \frac{2}{3} - \frac{4}{6} = 0$ (4)

② ~~{a, b}~~ $C = \frac{3}{6} = \frac{1}{2} \leftarrow \text{confidence}$ $Pr(e) = \frac{3}{6} = \frac{1}{2}$
 $a \rightarrow e$
 $\text{interest} = \frac{1}{2} - \frac{3}{6} = 0$