```
age > 40 , income lon
                               Quiz 6
     Mornal
P (buy | age > 40, income: low)
 P(age | bug) = 3/9
P(age | not bug) = 2/5
 P (income | buy) 1/9
 P (income | notby) = 1/5
```

Prior 0.111 
$$\times$$
 0.643 = 0.071377  $\times$  0.08  $\times$  0.357 = 0.02856

## Caplacian correction

PC buy | age 31-40, income: high P(age (buy) = 5/12 Plage Inot buy) = 1/8 P(Income loug) = 2/9 P(Income | not buy) = 2/5 buy: 5/12 × 2/9 = 0.09259 hot buy=1/6 × 2/5 = 0.05

0.09251 × 0.143 = 0.05953 / buy 0.05 × 0.357 = 0.01785