$P(\text{spam}) = \frac{58}{100}$ $\quad P(\neg\text{spam}) = \frac{42}{100}$

$P(\text{buy}|\text{spam}) = \frac{47}{58} \to \frac{48}{60}$ $\quad P(\text{buy}|\neg\text{spam}) = \frac{3}{42} \to \frac{4}{44}$

$P(\text{win}|\text{spam}) = \frac{41}{58} \to \frac{42}{60}$ $\quad P(\text{win}|\neg\text{spam}) = \frac{5}{42} \to \frac{6}{44}$

SPAM

$\left(\frac{42}{60}\right)\left(1-\frac{48}{60}\right)\left(\frac{58}{100}\right)$

≈ 0.0812

$>$

¬SPAM

$\left(\frac{6}{44}\right)\left(1-\frac{4}{44}\right)\left(\frac{42}{100}\right)$

≈ 0.0521

Should be predicted as spam

$P(\text{spam}|\text{win}, \neg\text{buy}) = \frac{.0812}{.0812+.0521} \approx 0.6092$