1. priors: $P(c) = \frac{3}{4}$ $P(j) = \frac{1}{4}$

  Conditional: $P(\text{Chinese} \mid c) = \frac{5+1}{10+6} = \frac{3}{8}$

                $P(\text{Tokyo} \mid c) = \frac{0+1}{10+6} = \frac{1}{16}$

                $P(\text{Japan} \mid c) = \frac{0+1}{10+6} = \frac{1}{16}$

                $P(\text{Chinese} \mid j) = \frac{1+1}{3+6} = \frac{2}{9}$

                $P(\text{Tokyo} \mid j) = \frac{1+1}{3+6} = \frac{2}{9}$

                $P(\text{Japan} \mid j) = \frac{1+1}{3+6} = \frac{2}{9}$

test: $P(c \mid \cdots) \propto \frac{3}{4} \times (\frac{3}{8})^3 \times \frac{1}{16} \times \frac{1}{16} \approx 1.54 \times 10^{-4}$

      $P(j \mid \cdots) \propto \frac{1}{4} \times (\frac{2}{9})^3 \times \frac{2}{9} \times \frac{2}{9} \approx 1.35 \times 10^{-4}$

∴ 预测为 c