Помин вер-ть. Ф-па Байеса.

N1

Boes embacee 1ú pez :
$$P(A_{10}) = \frac{3}{41}$$
 $P(A_{12}) = \frac{8}{41}$

Boererubueur 2ti paz:
$$P(A_{2re}|A_{1\delta}) = \frac{7}{10} \cdot \frac{8}{11} = 0,509$$

 $P(A_{2re}|A_{re}) = \frac{8}{10} \cdot \frac{3}{11} = 0,218$

Torga:
$$P(A_{2^{n}e}) = P(A_{2^{n}e} | A_{15}) + P(A_{2^{n}e} | A_{17}) = 0,72$$

Ombern: 0,72

N2

Вер-73 воебора монет:
$$P(A_{\text{корм}}) = 8/10$$

 $P(A_{\text{брак}}) = 2/10$
Вер-73 $3x$ гербов: $P(A_{3\text{герб}} | A_{\text{морш}}) = (\frac{1}{2})^3$. $8/10 = 0.1$
 $P(A_{3\text{герб}} | A_{5\text{реж}}) = (1)^3$. $2/10 = 2/10$

Поперчени:
$$P(A_{3repo}) = P(A_{3repo} \mid A_{морм}) + P(A_{3repo} \mid A_{5pax}) = 0,3$$

Ombem: 0,3

Teplee been rubannel:
$$P(A_{1bourp}) = \frac{5}{12}$$

 $P(A_{1npourp}) = \frac{7}{12}$

Второг выстивание.
$$P(A_{2benurp.} | A_{1benurp}) = 4/_{11} \cdot 5/_{12} = \frac{20}{132}$$
 тонько выстрии. $P(A_{2benurp.} | A_{1npourp}) = \frac{35}{12} \cdot \frac{5}{11} = \frac{35}{132}$

To populare baiece:

NY

Voguareum: A - nonacee 2 orpeera

A; - nonægemme i-ro corperence.

$$P(A|A_1) = P(A_1) P(A_2) P(\overline{A_3}) + P(A_1) P(\overline{A_1}) P(A_3) = 0.8 \cdot 0.4 \cdot 0.8 + 0.8 \cdot 0.6 \cdot 0.2 = 0.353$$

$$P(A | A_2) = P(\bar{A}_1) P(A_2) P(A_3) + P(A_1) P(A_2) P(\bar{A}_3) = 0,2 \cdot 0,4 \cdot 0,2 + 0,8 \cdot 0,4 \cdot 0,8 = 0,272$$

$$P(A|A_3) = P(\bar{A_1}) P(A_2) P(A_3) + P(A_1) P(\bar{A_2}) P(A_3) =$$

$$= 0, 2 \cdot 0, 4 \cdot 0, 2 + 0, 8 \cdot 0, 6 \cdot 0, 2 = 0, 112$$

$$P(A_1|A) = \frac{P(A|A_1) \cdot P(A_1)}{P(A|A_1) \cdot P(A_1) + P(A|A_2) \cdot P(A_2) + P(A|A_3) \cdot P(A_3)} = 0,683$$

$$P(A_{2}|A) = \frac{P(A|A_{2}) \cdot P(A_{2})}{P(A|A_{1}) \cdot P(A_{1}) + P(A|A_{2}) \cdot P(A_{2}) + P(A|A_{3}) \cdot P(A_{3})} = 0,263$$

$$P(A_3|A) = \frac{P(A|A_3) P(A_3)}{P(A|A_4) \cdot P(A_1) + P(A|A_2) P(A_2) + P(A|A_3) P(A_3)} = 0.054$$

Ombem:
$$P(A_1|A) = 0.683$$

 $P(A_2|A) = 0.263$
 $P(A_3|A) = 0.054$