```
4. P(B) = \frac{1}{1000} P(x|B) = 0,94 P(+1B^2) = 0,05
   P(B|+) = P(+1B) . P(B) = P(+1B) . P(B)
              0,98·1000 P(+1B)P(B)+P(+1B°)P(B°)
  = 0,38.1 + 0,05. 599
   P(B|+,+_2) = P(+,+_2|B) \frac{P(B)}{P(+,+_2)}
   P(+,+2 |B) = P(+, |B) . P(+, |B) = (98)
    P(+,+) = P(+,+2|B) P(B) + P(+,+2|B'). P(B')
   P(B|+1+2) = \left(\frac{98}{100}\right)^{2} \frac{1}{1000} = \frac{5}{1000} = \frac{5}{1000} = \frac{5}{1000}
    P (B |+, +2) = P (+, +2 |B) P(B)
         +,11 +, 1B
    P(+_1+_2^c|B) = P(+_1|B) P(+_2^c|B) = \frac{98}{100} \cdot \frac{2}{100}
     P(+,+_{2}^{C}|B^{C}) = P(+,|B^{C})P(+_{2}^{C}|B^{C}) = \frac{5}{100} \cdot \frac{95}{100}
      P(+,+c) = P(+,+c1B).P(B)+P(+,+21Bc).P(Bc) =
       = \frac{98}{100} \cdot \frac{2}{100} \cdot \frac{1}{1000} + \frac{5}{100} \cdot \frac{95}{1000} \cdot \frac{999}{1000} = 0,0474
        P(B|+_{1}+_{2}) = \frac{96}{100} \cdot \frac{2}{1000} = \frac{1000}{0,0574} = 0,000513
P(B|+_{1}+_{2}) = P(+_{1}+_{2}|B) \cdot \frac{P(B)}{P(+_{1}+_{2})}
*+_{1}\perp +_{2}|B
         P(+_{1}^{\prime}+_{2}|B) = P(+_{1}^{\prime}|B) P(+_{2}|B) = \frac{2}{100} \cdot \frac{98}{100}

P(+_{1}^{\prime}+_{2}|B') = P(+_{1}^{\prime}|B') P(+_{2}|B') = \frac{95}{100} \cdot \frac{5}{100}
         P(+1+2) = P(+1+21B) P(B) + P(+1+21B) P(B) =
         = \frac{2}{100} \cdot \frac{98}{100} \cdot \frac{1}{1000} + \frac{95}{100} \cdot \frac{5}{100} \cdot \frac{999}{1000} = 8,000 \cdot 174
P(B) + \frac{1}{1} + \frac{1}{1} = A + \frac{1}{172} \cdot \frac{98}{100} \cdot \frac{2}{1000} \cdot \frac{999}{1000} = 8,000 \cdot 13
```

P(B|f,+e)+ P(B|++) = 0,00082

$$P(B^{c}|A^{c}, +c^{c}) = P(A^{c}, +c^{c}) \cdot \frac{P(B^{c})}{P(A^{c}, +c^{c})}$$

$$P(A^{c}, +c^{c}) = P(A^{c}, +c^{c}) \cdot P(A^{c}, +c^{c})$$

$$P(A^{c}, +c^{c}) = P(A^{c}, +c^{c}) \cdot P(A^{c}, +c^{c}) = \frac{95}{1000}$$

$$P(A^{c}, +c^{c}) = P(A^{c}, +c^{c}) \cdot P(B^{c}) \cdot P(B^{c}) + P(A^{c}, +c^{c}) \cdot P(B^{c}) = \frac{95}{1000}$$

$$= \frac{95}{1000} \cdot \frac{999}{10000} + \frac{299}{10000} \cdot \frac{1}{10000}$$

$$P(B^{c}|A^{c}, +c^{c}) = \frac{95}{1000} \cdot \frac{999}{10000} = 0,9999$$

$$P(A^{c}, +c^{c}) = \frac{95}{1000} \cdot \frac{999}{10000} = 0,9999$$