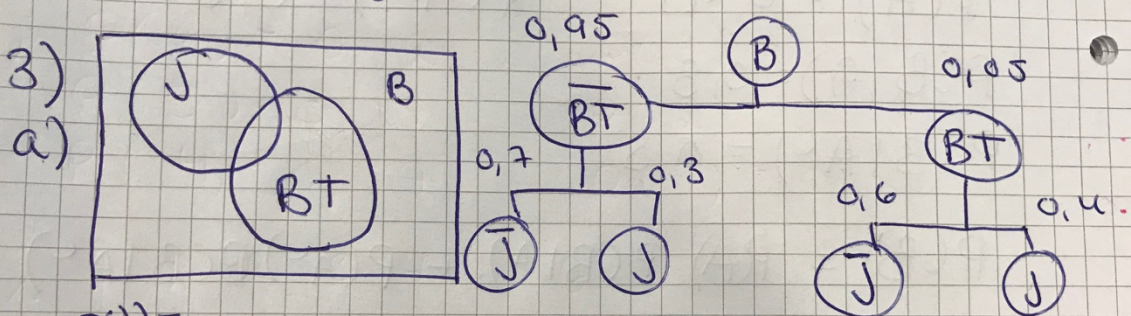


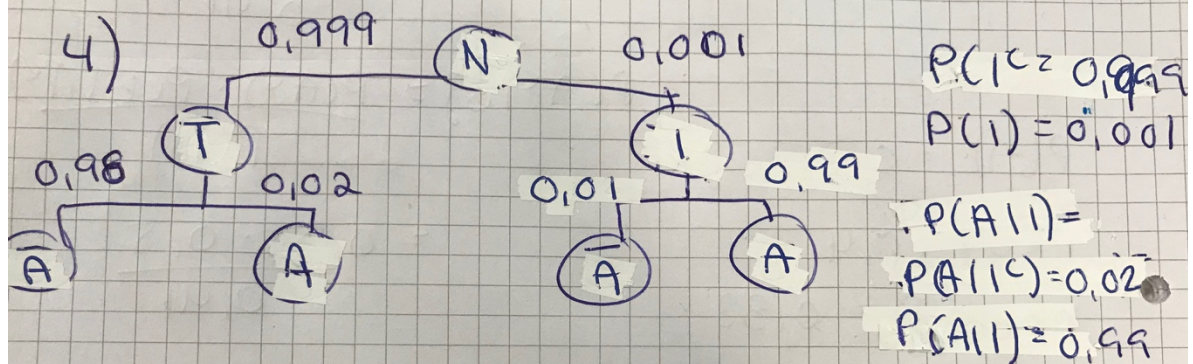
$$(0,9 \cdot 0,105) + (0,1 \cdot 0,053) = \underline{\underline{0,0993}}$$



b)  $P(J) = (0,95 \cdot 0,3) + (0,05 \cdot 0,4) = \underline{\underline{0,305}}$

c)  $P(BT \cap J) = (0,05 \cdot 0,4) = \underline{\underline{0,02}}$

d)  $P(BT | J) = \frac{P(BT \cap J)}{P(J)} = \frac{0,02}{0,305} = \underline{\underline{0,066}}$



$$\begin{aligned}
 P(I|A) &= \frac{P(I) \cdot P(A|I) + P(I^c) \cdot P(A|I^c)}{P(A)} \\
 &= \frac{0,001 \cdot 0,01 + 0,999 \cdot 0,02}{0,021} \\
 &= \underline{\underline{0,021}}
 \end{aligned}$$