

4 continuări: <sup>b)</sup> Trebuie să calculăm parametrii pt BN: clasa de monca B<sub>2</sub>

AUBU

0 0 0 0  
0

$$P(Y=0) = \frac{1}{2}$$

$$P(Y=1) = \frac{1}{2}$$

$P(A Y)$	A=0	A=1
y=0	$\frac{3}{4}$	$\frac{1}{4}$
y=1	$\frac{1}{4}$	$\frac{3}{4}$

$P(B Y)$	B=0	B=1
y=0	$\frac{2}{4}$	$\frac{2}{4}$
y=1	$\frac{2}{4}$	$\frac{2}{4}$

$P(C Y)$	C=0	C=1
y=0	$\frac{1}{4}$	$\frac{3}{4}$
y=1	$\frac{2}{4}$	$\frac{2}{4}$

A	B	C	Y	$P_{BN}(Y)$
0	0	0	1	1
0	0	1	0	0
0	1	0	0	1
0	1	1	0	0
1	0	0	1	1
1	0	1	0	1
1	1	0	1	1
1	1	1	1	1

de aici provin greșelile de înălțimi!

$$A \cdot 000 \Rightarrow P_0 = P(A=0|Y=0) \cdot P(B=0|Y=0) \cdot P(C=0|Y=0) \cdot P(Y=0)$$

$$\Rightarrow P_0 = \frac{3}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2} = \frac{3}{2 \cdot 4^3} \quad P_1 > P_0 \Rightarrow \text{alege 1.}$$

$$P_1 = \frac{1}{4} \cdot \frac{2}{4} \cdot \frac{3}{4} \cdot \frac{1}{2} = \frac{4}{2 \cdot 4^3}$$

$$001 \Rightarrow P_0 = \frac{3}{4} \cdot \frac{1}{4} \cdot \frac{3}{4} \cdot \frac{1}{2} = \frac{3^2}{2 \cdot 4^3}$$

$$P_1 = \frac{1}{4} \cdot \frac{2}{4} \cdot \frac{1}{4} \cdot \frac{1}{2} = \frac{2^2}{2 \cdot 4^3}$$

$$010 \Rightarrow P_0 = \frac{3}{4} \cdot \frac{2}{4} \cdot \frac{1}{4} \cdot \frac{1}{2} \Rightarrow 0$$

$$P_1 = \frac{1}{4} \cdot \frac{2}{4} \cdot \frac{3}{4} \cdot \frac{1}{2}$$

$$011 \Rightarrow P_0 = \frac{3}{4} \cdot \frac{2}{4} \cdot \frac{3}{4} \cdot \frac{1}{2} \Rightarrow 0$$

$$P_1 = \frac{1}{4} \cdot \frac{2}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$$

$$100 \Rightarrow P_0 = \frac{1}{4} \cdot \frac{2}{4} \cdot \frac{1}{4} \cdot \frac{1}{2} \Rightarrow 1.$$

$$P_1 = \frac{3}{4} \cdot \frac{2}{4} \cdot \frac{3}{4} \cdot \frac{1}{2}$$

$$101 \Rightarrow P_0 = \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{3}{4} \cdot \frac{1}{2} \Rightarrow 1.$$

$$P_1 = \frac{3}{4} \cdot \frac{2}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$$

$$110 \Rightarrow P_0 = \frac{1}{4} \cdot \frac{2}{4} \cdot \frac{1}{2} \cdot \frac{1}{2} : P_1 = \frac{3}{4} \cdot \frac{2}{4} \cdot \frac{3}{4} \cdot \frac{1}{2} \Rightarrow 1.$$

$$\Rightarrow P_0 > P_1 \Rightarrow 0$$

$$111 \Rightarrow P_0 = \frac{1}{4} \cdot \frac{2}{4} \cdot \frac{3}{4} \cdot \frac{1}{2} \Rightarrow 1.$$

$$P_1 = \frac{3}{4} \cdot \frac{2}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$$

Sint tabel -> exoner. pt BN  
na fi  $\left(\frac{1}{8}\right)$ .