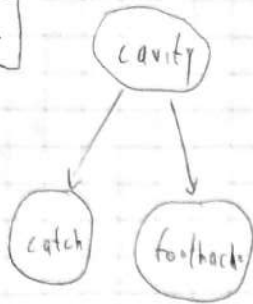


L	P
T	0.2

(L) 1

cavity	P(catch)
T	0.9
F	0.2



cavity	P(toothache)
T	0.6
F	0.1

$$P(\text{cavity}) = 0.108 + 0.012 + 0.072 + 0.008 = 0.2$$

$$P(\text{catch} | \text{cavity}) = \frac{P(\text{catch, cavity})}{P(\text{cavity})} = \frac{0.108 + 0.012}{0.2} = \frac{0.12}{0.2} = 0.6$$

$$P(\text{catch} | \neg \text{cavity}) = \frac{P(\text{catch, } \neg \text{cavity})}{P(\neg \text{cavity})} = \frac{0.016 + 0.144}{0.8} = \frac{0.16}{0.8} = 0.2$$

$$P(\text{toothache} | \text{cavity}) = \frac{P(\text{toothache, cavity})}{P(\text{cavity})} = \frac{0.108 + 0.012}{0.2} = \frac{0.12}{0.2} = 0.6$$

$$P(\text{toothache} | \neg \text{cavity}) = \frac{P(\text{toothache, } \neg \text{cavity})}{P(\neg \text{cavity})} = \frac{0.016 + 0.064}{0.8} = \frac{0.08}{0.8} = 0.1$$

$$P(\text{cavity} | \text{catch, toothache}) = \frac{P(\text{cavity, catch, toothache})}{P(\text{catch, toothache})} = \frac{0.108}{0.108 + 0.016} = \frac{0.108}{0.124} = 0.87096$$

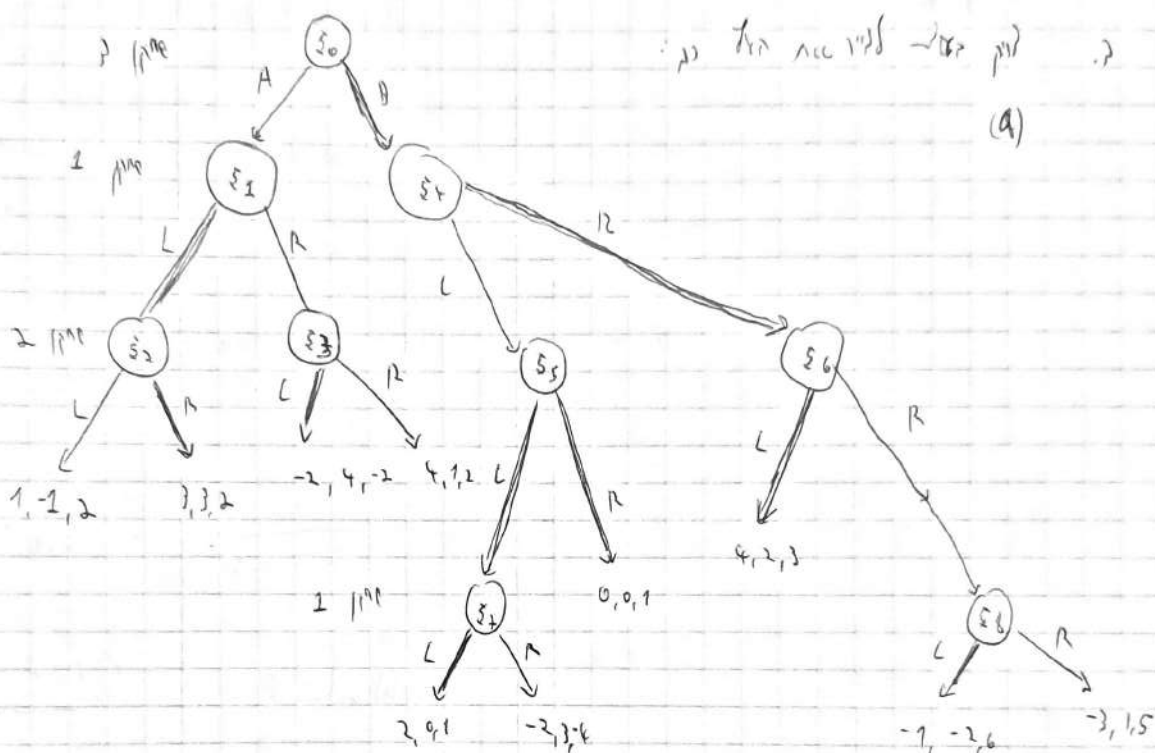
$$P(A | B, C) = P(A | C) = \frac{P(A)}{P(C)}$$

$$NIM C \Leftarrow \begin{matrix} a & a & b \\ c & c & c \\ b & b & a \end{matrix}$$

$$NIM A \Leftarrow \begin{matrix} b & b \\ a & a \\ c & c \end{matrix}$$

$$NIM B \Leftarrow \begin{matrix} b & b \\ a & a \\ c & c \end{matrix}$$

$$NIM A \Leftarrow \begin{matrix} a & a \\ b & b \\ c & c \end{matrix}$$



$$\xi_0 - B, \xi_1 - L, \xi_2 - R, \xi_3 - L, \xi_4 - R, \xi_5 - L, \xi_6 - L, \xi_7 - L, \xi_8 - L$$

$$\xi_0 - B, \xi_1 - L, \xi_2 - R, \xi_3 - L, \xi_4 - R, \xi_5 - R, \xi_6 - L, \xi_7 - L, \xi_8 - L$$

$$-4 - \delta \text{ and } 1/k \text{ with } \delta \rightarrow 0 \text{ and } k \rightarrow \infty \text{ and } \delta \text{ and } k \text{ are small}$$

$$P.E. \text{ is a Nash equilibrium in } (A_2, A_2)$$

	A_2	$1-P$	A_2
A_1	3, 3	1, 1	
A_2	1, 1	2, 2	

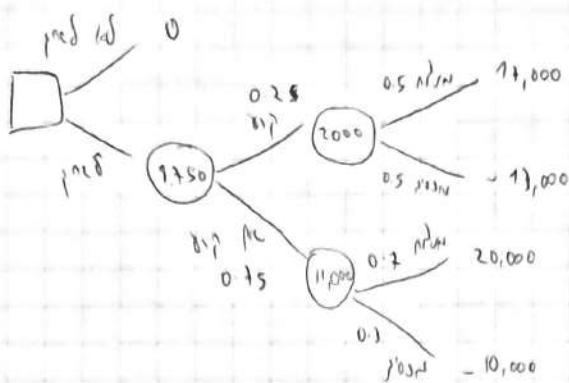
$$3p + 1 \cdot (1-p) = 1 \cdot p + 2 \cdot (1-p)$$

$$2p + 1 = 2 - p$$

$$3p = 1$$

$$p = \frac{1}{3}$$

$$P.E. = \left(\left[\frac{1}{3}, A_1; \frac{2}{3}, A_2 \right], \left[\frac{1}{3}, A_1; \frac{2}{3}, A_2 \right] \right)$$



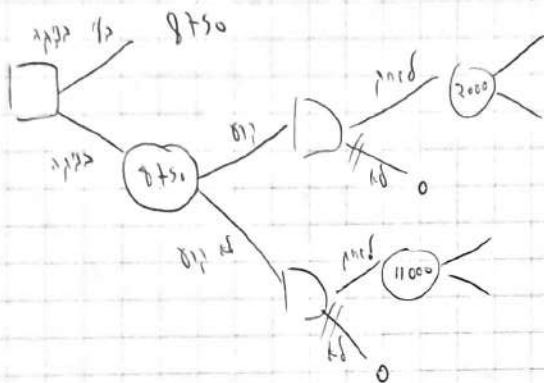
(א) ההחלטה הטובה ביותר היא 8750

(ב) לא לזנק בלוקים זהו סכר "קרי"

אם $utility > 0$

ההחלטה הטובה ביותר היא

לזנק בלוקים.



(ג) $x \geq 35,000$

$$0.25 \cdot (0.5 \cdot 17,000 - 0.5 \cdot (x + 3000)) + 0.75 \cdot (0.7 \cdot 20,000 - 0.3 \cdot x) < 0$$

$$2125 - 0.125x - 375 + 10500 - 0.225x < 0$$

$$12250 < 0.35x$$

$$35,000 < x$$

אם החסיס זקוק ל-35,000 קילו, והוא עוזר ל-8750.