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■ (2006)

■ (2008)

□ 6453





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If a builder a house for some one, and does not construct it properly, and the house which he build fall in and kill its owner, then that builder shall be put to death.

The Code of Hammurabi,
translated by L.w.King(1910), edited by Richard Hooker



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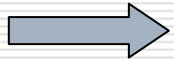


(Kofman, 1993)

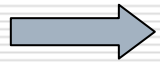


(Who polices the police)

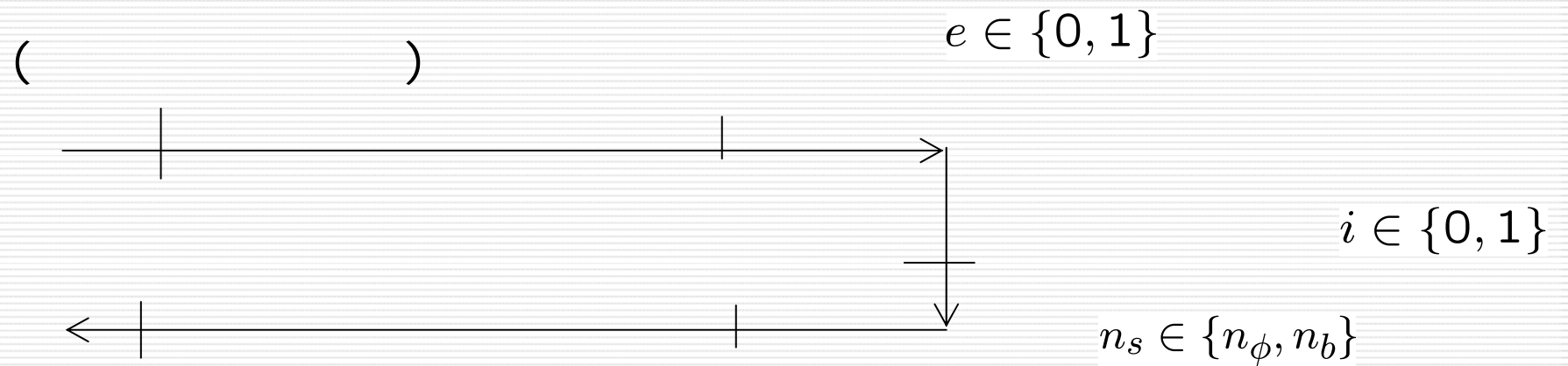




e.g.







(t, v, w)

$m_s \in \{m_\phi, m_b\}$

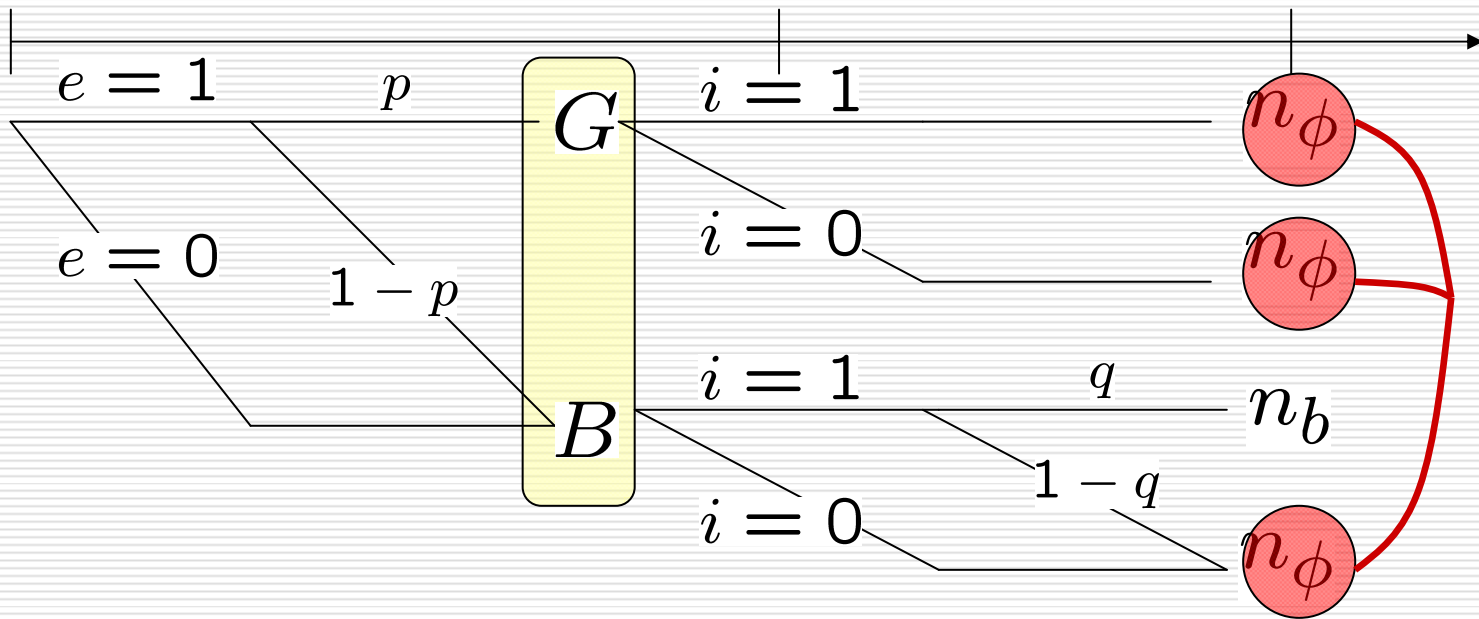
m_b

c_r

$c(e)$

$d(i)$





G
 B

n_ϕ
 n_b

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$$\min_{t, v, w} t + (1 - \bar{p}q)v + \bar{p}qw \quad (\quad)$$

$$s.t. \quad t - \bar{p}qc_r + c \geq 0$$

$$t - c_r \geq 0$$

$$\bar{p}qw + (1 - \bar{p}q)v - d \geq 0$$

$$pqc_r \geq c$$

$$\bar{p}q(w - v) \geq d$$

$$v \geq d, w \geq d$$

$$(t_1^*, v_1^*, w_1^*) = (\bar{p}qc_r + c, d, d + \frac{d}{\bar{p}q})$$

$$w_1^* > v_1^*$$

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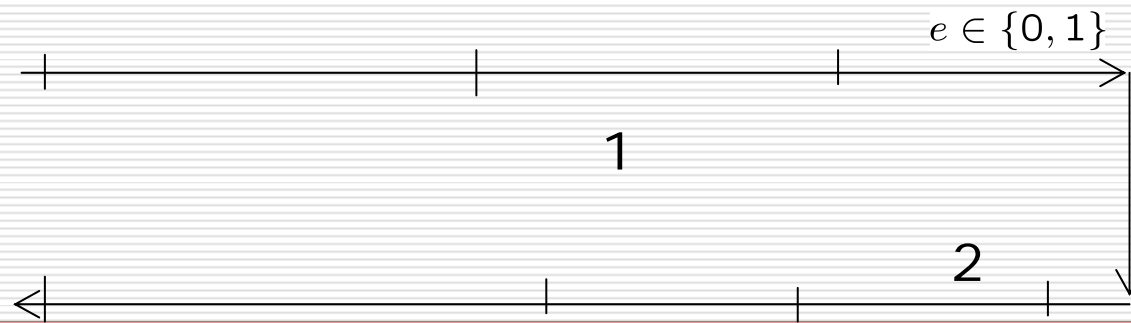
(e.g.)



■ 1()



■ 2()



(t, v, w)

$m_s \in \{m_\phi, m_b\}$

$i \in \{0, 1\}$

$$\min_{t, v, w} t + (1 - \bar{p}q)v + \bar{p}qw$$

$$s.t. \quad t - \bar{p}qc_r + c \geq 0$$

$$t - c_r \geq 0$$

$$\bar{p}qw + (1 - \bar{p}q)v - d \geq 0$$

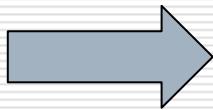
$$pqc_r \geq c$$

$$\bar{p}q(w - v) \geq d$$

$$v \geq d, w \geq d$$

$$w - v \geq c_r + \frac{c+d}{\bar{p}q} \quad 1(\quad 1)$$

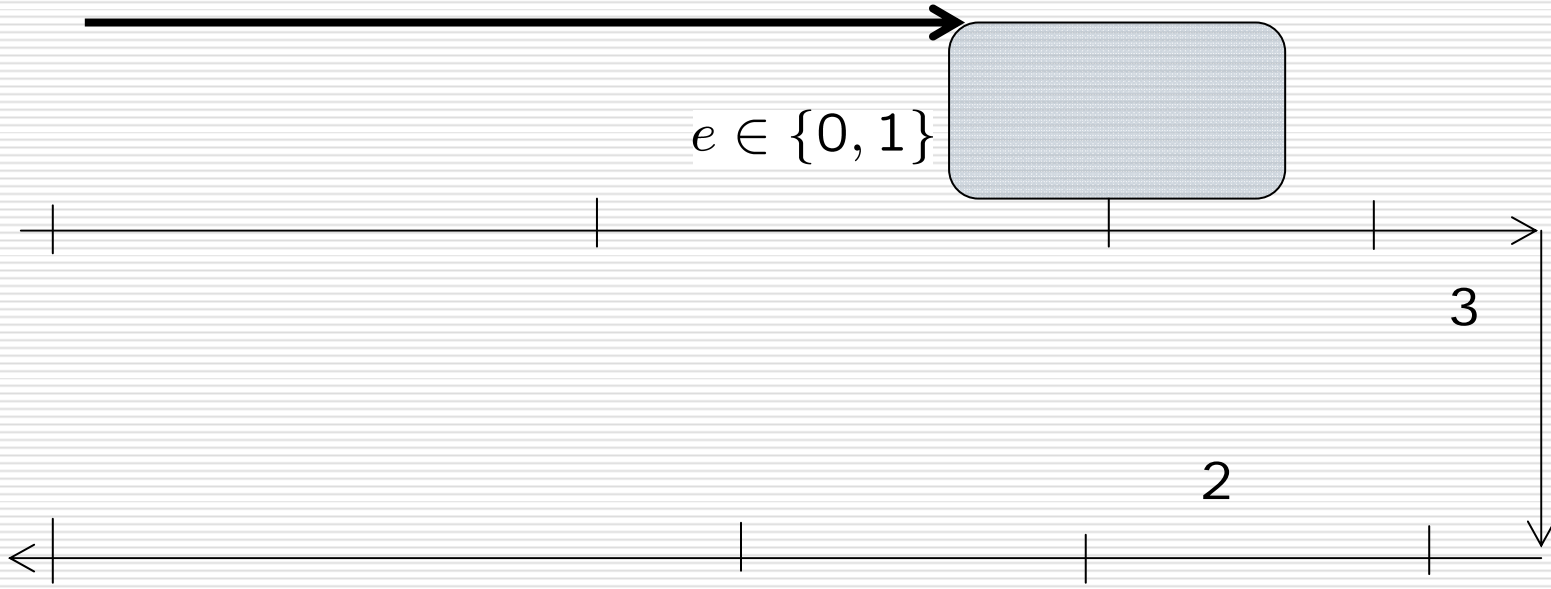
$$w - v \geq c_r \quad 2(\quad 2)$$



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1





(t, v, w)

$m_s \in \{m_\phi, m_b\}$

$i \in \{0, 1\}$



$$\min_{t, v, w} t + (1 - \bar{p}q)v + \bar{p}qw$$

$$s.t. \quad t - \bar{p}qc_r + c \geq 0$$

$$t - c_r \geq 0$$

$$\bar{p}qw + (1 - \bar{p}q)v - d \geq 0$$

$$pqc_r \geq c$$

$$\bar{p}q(w - v) \geq d$$

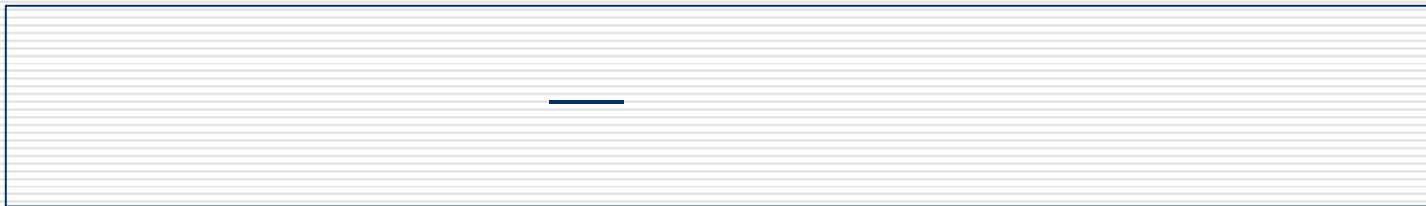
$$v \geq d, w \geq d$$

$$w - v \geq c_r + \frac{c+d}{\bar{p}q} \quad 2(\quad 2)$$

~~$$\bar{p}q(w - v) \geq d \quad 3(\quad 3)$$~~

$$(t_3^*, v_3^*, w_3^*) = (\bar{p}qc_r + c, d, d + \frac{c_r}{\bar{p}} + \frac{d}{\bar{p}q})$$

$$w_2^* > w_3^* > w_1^*$$





(e.g.



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