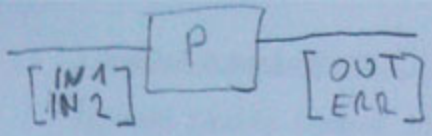
2.

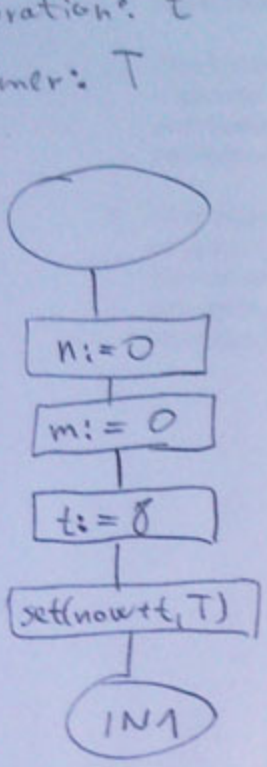


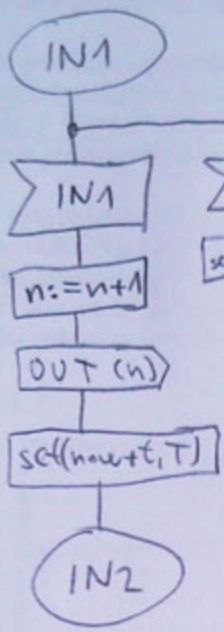
signali: IN1, IN2, OUT, ERR

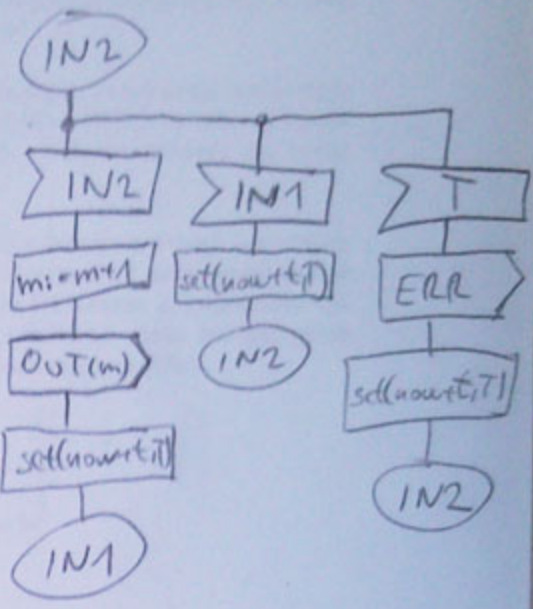
integer: n, m

duration: t

Timer: T







3.

$D = 10\,km$

$R = 64\,kb/s$

$c = v = 3 \cdot 10^8\,m/s$

$L_i = 150_0 \Rightarrow 1200\,bitov$

$L_r = 5_0 \Rightarrow 40\,bitov$

$L_a = 5_0$

$t_{to}, t_{da} = ?$

$$t_i = \frac{L_i + L_r}{R} = \frac{1240\,b}{64 \cdot 10^3\,b/s} = 19{,}4\,ms$$

$$t_p = \frac{D}{v} = \frac{10 \cdot 10^3\,m}{3 \cdot 10^8\,m/s} = 33{,}3\,\mu s$$

$t_{da} > t_i \Rightarrow t_{da} > 19{,}4\,ms$

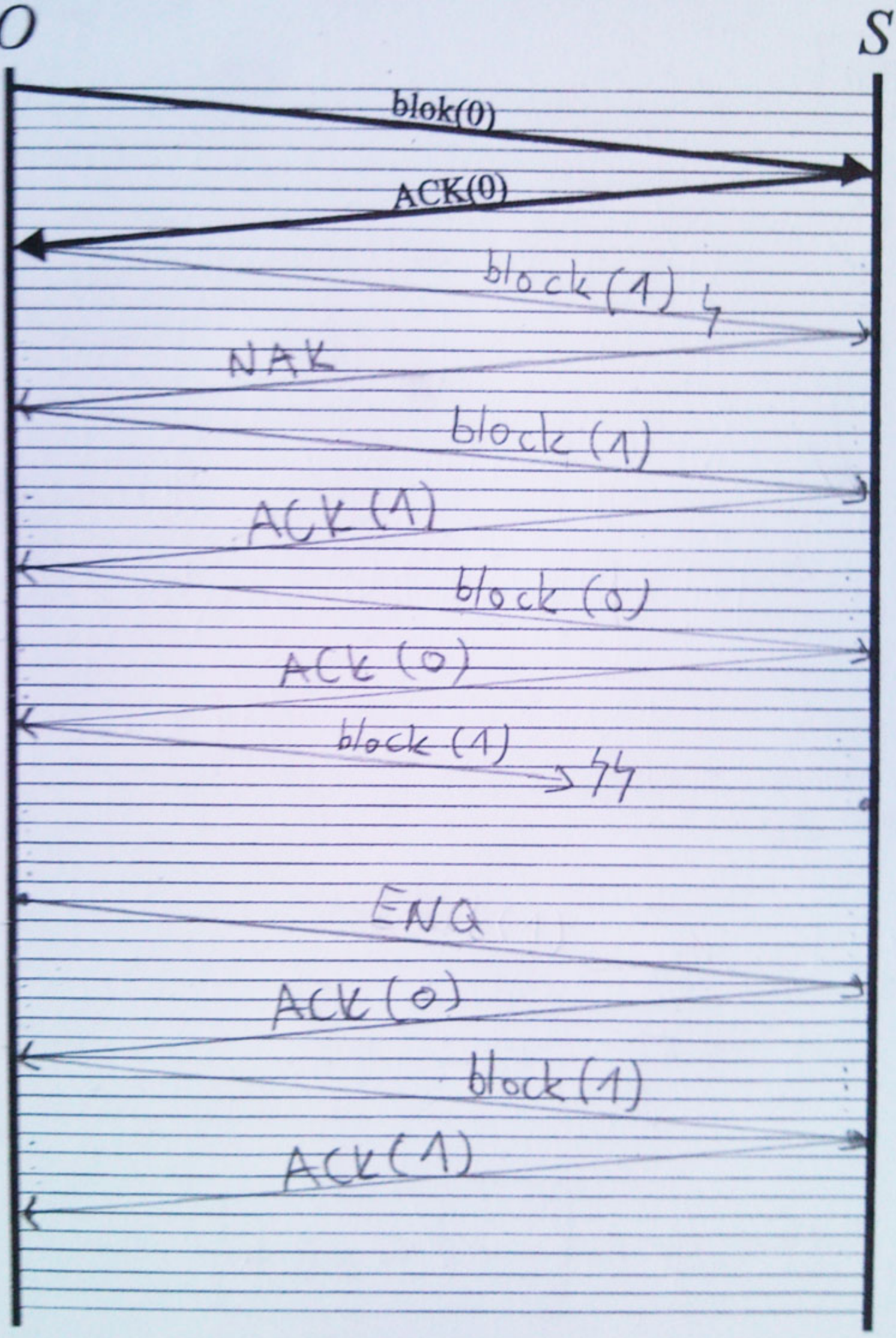
pogoj

$$t_{rt} = 2 \cdot t_i + t_{da} + 2 \cdot t_p = 3 \cdot t_i + 2 \cdot t_p$$

$$= 3 \cdot 19{,}4 \cdot 10^{-3}\,s + 2 \cdot 33{,}3 \cdot 10^{-6}\,s = 58{,}3\,ms$$

$t_{to} > t_{rt} \Rightarrow t_{to} > 58{,}3\,ms$

pogoj


O
S
blok(0)
ACK(0)
block (1) ↯
NAK
block (1)
ACK (1)
block (0)
ACK (0)
block (1) ↯
ENQ
ACK (0)
block (1)
ACK (1)