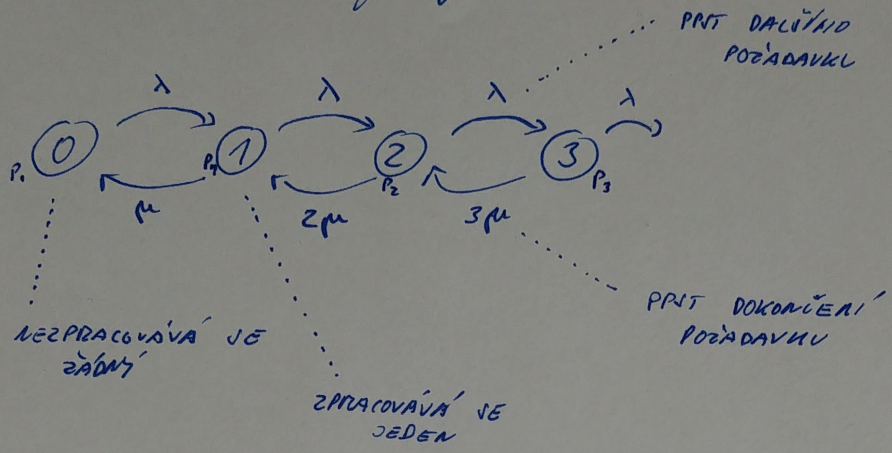
ZADÁNÍ 3

MM3 s nulovou délkou fronty.



$\lambda = 50\ /h$

$\mu = 1/\frac{1}{30}\ /h = 30\ /h$

$0 = -\lambda p_0 + \mu p_1$

$0 = \lambda p_0 - \lambda p_1 + 2\mu p_2 - \mu p_1$

$0 = \lambda p_1 - \lambda p_2 + 2\mu p_3 - 2\mu p_2$

$1 = p_0 + p_1 + p_2 + p_3$

$$\left|\begin{array}{cccc|c} -50 & 30 & 0 & 0 & 0 \\ 50 & -80 & 60 & 0 & 0 \\ 0 & 50 & -110 & 90 & 0 \\ 1 & 1 & 1 & 1 & 1 \end{array}\right|$$

$p_0 = 81/391 \doteq 0.2$

$p_1 = 135/391 \doteq 0.35$

$p_2 = 225/782 \doteq 0.29$

$p_3 = 125/782 \doteq 0.16$

1

PRAVDĚPODOBNOST OBSAZENÍ VŠECH 3 LINEK $= p_3 = 0.16$

PRAVDĚPODOBNOST ŽE POŽADAVEK BUDE USPOKOJEN $= 1 - p_3 = 0.84$