Advanced Model Checking
Summer term 2009

– Series 6 –

Hand in on June 1'st before the exercise class.

Exercise 1 (4 points)

Compute the ample sets for at least four succesive states in $\hat{T}S = TS(PG_1 \parallel PG_2)$ by means of Algorithm 41 (page 634 in the book).
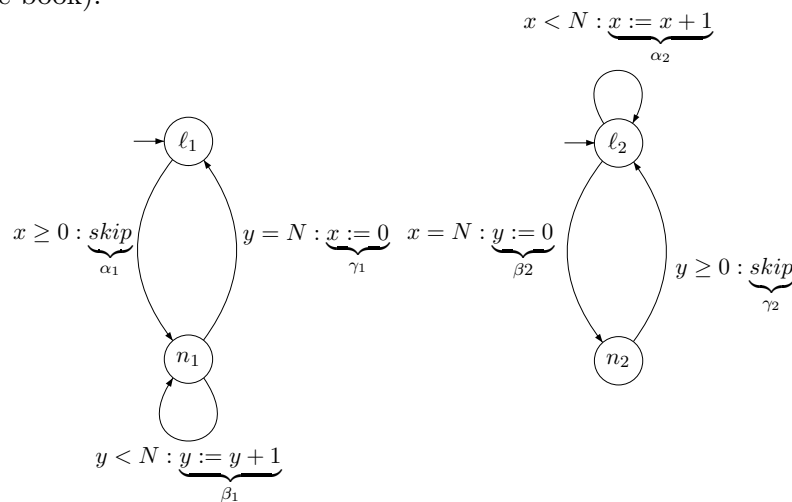

Abbildung 1: Program graphs PG_1 (left) and PG_2 (right)

Exercise 2 (3 + 3 points)

Consider the following transition systems.

(i). Give the switching function of Train, Controller and Gate respectively.

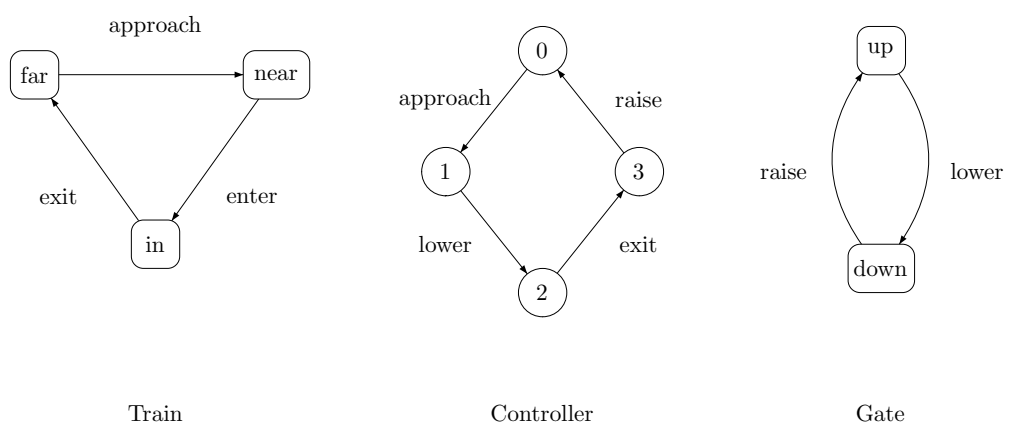(ii). Give the switching function of the parallel composition of Train, Controller and Gate.

Abbildung 2: Componentes of a railroad crossing.