Tik-79.231 Parallel and Distributed Digital Systems
Tutorial 2
Oct 13, 2000
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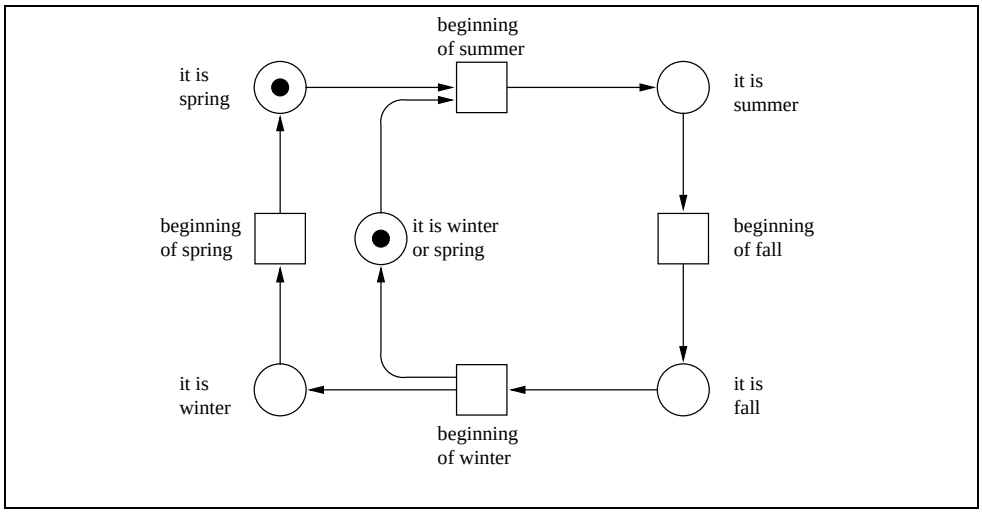
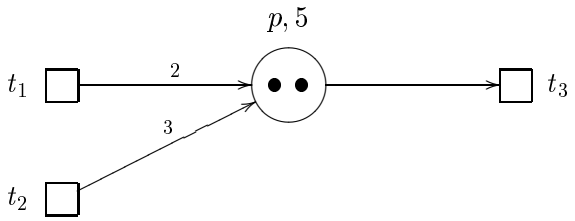
1. Consider the P/T net below, where the capacity of its places is 1:

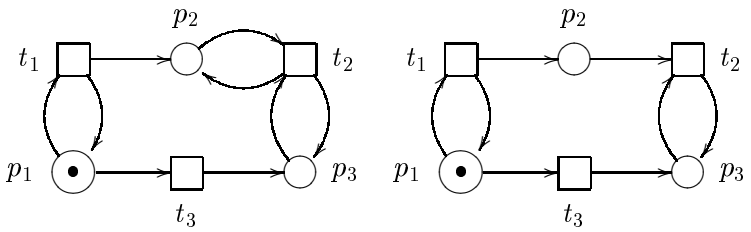


   (a) Find the contacts in the system.
   (b) Build the complement construction in the system.
   (c) What kind of semantics would you give to the complement places?
   (d) Add a new place to the original system describing the property 'it is summer or winter'.

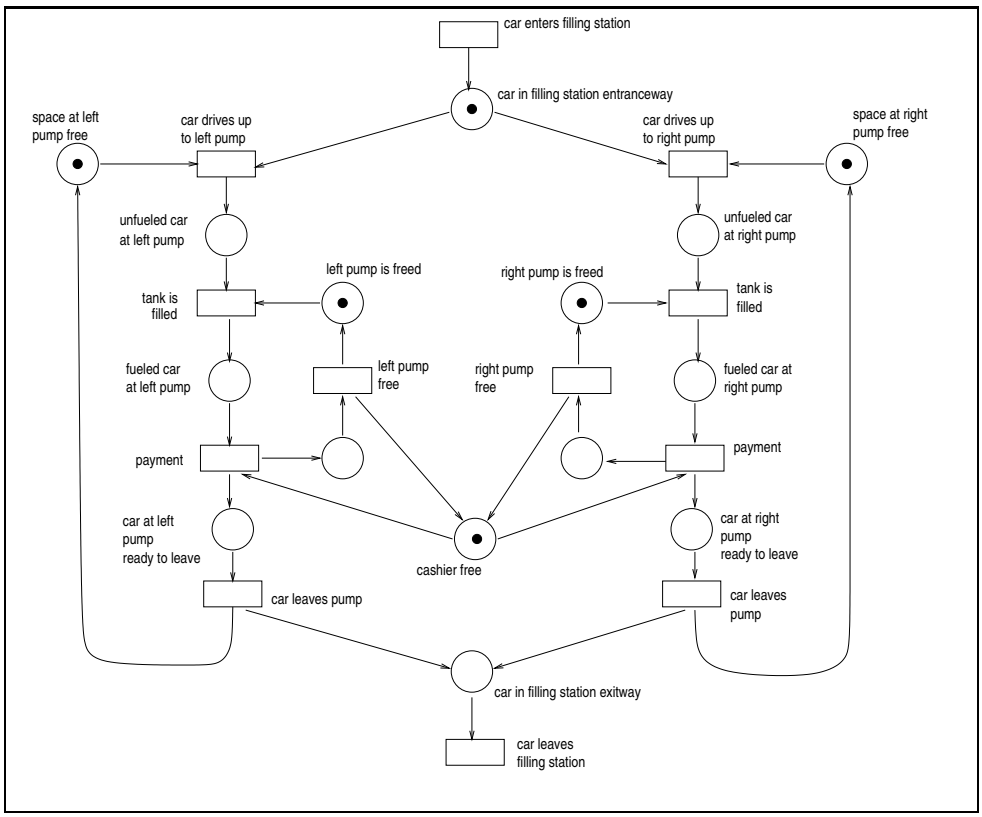
2. Build the complement construction for the net below:



3. Compute the coverability graph for the following nets (all places have unbounded capacities).



4. Let is consider the following P/T net modelling a self service fuelling station:



Let us assume that we are only interested in the *quantitative* aspects of the fuelling station.

Your task is to:

(a) Simplify the net so that it is no longer possible to observe if the left or right pump is being used.

(b) Add another cashier and two waiting slots to the system.