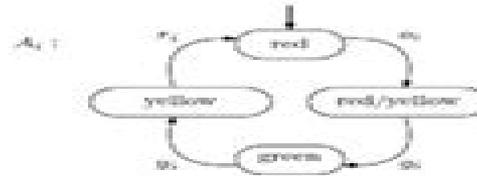


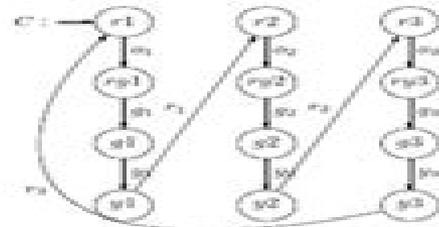
Exercises of Chapter 2

Answer to Exercise 2.3

(a) Let $Act = \bigcup_{0 < i < j \leq 5} \{r_i, g_i, y_i\}$. Labeling the transition system A_i yields:



(b) The controller has to synchronize with the traffic lights. Note that the actions defined in part (a) uniquely identify the i -th transition system. This is exploited by the controller in the following way. The controller synchronizes with the traffic lights using pairwise handshaking.



(c) Let $TS_1 \parallel \dots \parallel TS_n$ denote the parallel composition of TS_1 through TS_n , where TS_i and TS_j ($0 < i < j \leq n$) synchronize over the set of actions $H_{i,j} = Act_i \cap Act_j$ such that $H_{i,j} \cap Act_k = \emptyset$ for $k \notin \{i, j\}$. The inference rules for the transition relation are:

– if $\alpha \in Act_i \setminus \bigcup_{0 < j < k \leq i} H_{j,k}$ and $0 < i \leq n$:

$$\frac{s_i \xrightarrow{\alpha} s'_i}{(s_1, \dots, s_i, \dots, s_n) \xrightarrow{\alpha} (s_1, \dots, s'_i, \dots, s_n)}$$

– if $\alpha \in H_{i,j}$ and $0 < i < j \leq n$:

$$\frac{s_i \xrightarrow{\alpha} s'_i \quad s_j \xrightarrow{\alpha} s'_j}{(s_1, \dots, s_i, \dots, s_j, \dots, s_n) \xrightarrow{\alpha} (s_1, \dots, s'_i, \dots, s'_j, \dots, s_n)}$$

By applying these inference rules, the transition system $A_1 \parallel A_2 \parallel A_3 \parallel C$ becomes:

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