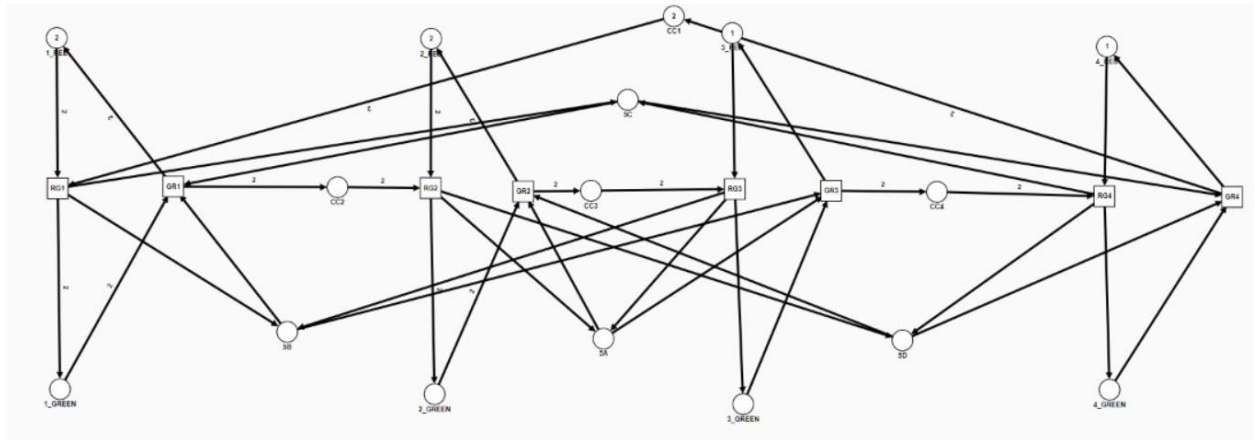


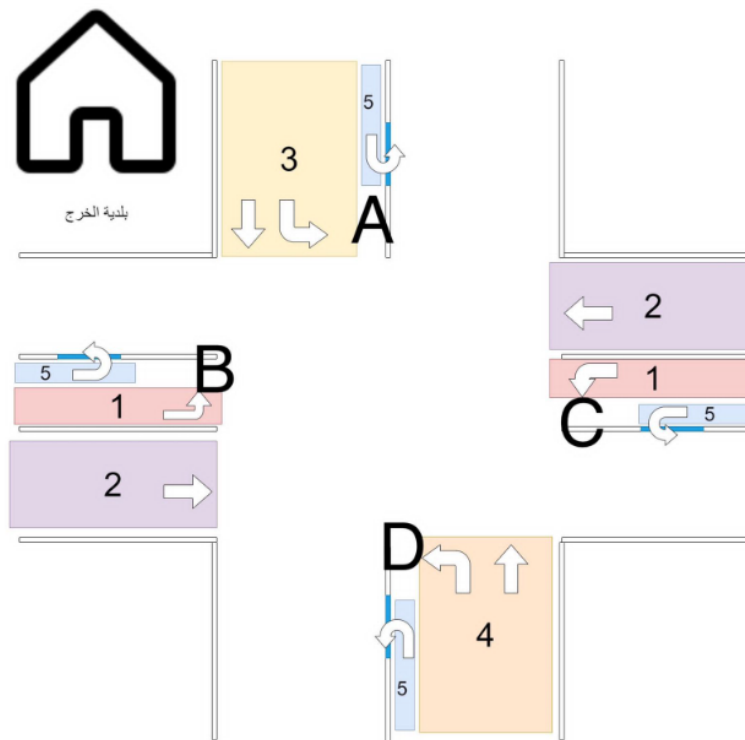
- The video link of the model in APO

<https://streamable.com/tcdxvq>

- The model picture



- Simulation for the system



- **The model code**

.name "Sample Net"

.type PN

.places

4\_RED

1\_RED

2\_RED

3\_RED

1\_GREEN

2\_GREEN

3\_GREEN

4\_GREEN

CC4

CC3

CC2

CC1

5C

5B

5A

5D

.transitions

GR1

RG1

RG2

GR2

RG3

GR3

RG4

GR4

- **The model code. Cont.**

.flows

GR1: {2\*1\_GREEN, 1\*5B, 1\*5C} -> {2\*1\_RED, 2\*CC2}

RG1: {2\*1\_RED, 2\*CC1} -> {2\*1\_GREEN, 1\*5B, 1\*5C}

RG2: {2\*2\_RED, 2\*CC2} -> {2\*2\_GREEN, 1\*5A, 1\*5D}

GR2: {2\*2\_GREEN, 1\*5A, 1\*5D} -> {2\*2\_RED, 2\*CC3}

RG3: {1\*3\_RED, 2\*CC3} -> {1\*3\_GREEN, 1\*5B, 1\*5A}

GR3: {1\*3\_GREEN, 1\*5B, 1\*5A} -> {1\*3\_RED, 2\*CC4}

RG4: {1\*4\_RED, 2\*CC4} -> {1\*4\_GREEN, 1\*5D, 1\*5C}

GR4: {1\*4\_GREEN, 1\*5D, 1\*5C} -> {1\*4\_RED, 2\*CC1}

.initial\_marking {1\*4\_RED, 2\*1\_RED, 2\*2\_RED, 1\*3\_RED, 2\*CC1}