

In the following,  $p$  will be the parameter,  $x$  and  $y$  will be the clocks,  $a$  and  $b$  two natural numbers  $\in \mathbb{N}$ .

Tile forcing the following interval:  $p \in (0, \frac{a}{2})$ .

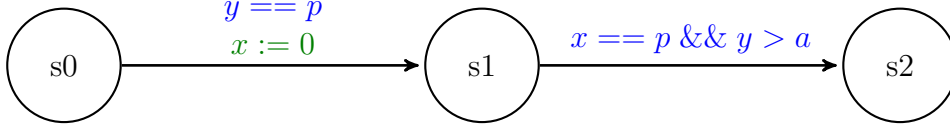


Fig. 1: Tile 1

Tile forcing the following interval:  $p \in (\frac{b}{2}, \infty)$ .

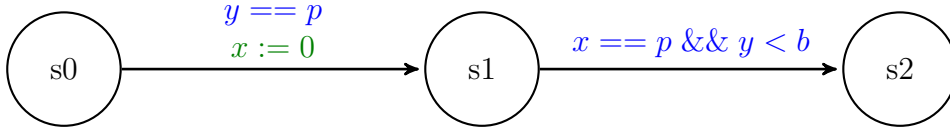


Fig. 2: Tile 2

The above tiles, namely Tile 1 and Tile 2, can be considered as the basic building blocks for constructing every other interval, thanks to the possibility of chaining them together, hence restricting the interval in which the parameter  $p$  will fall.

The following one has been obtained by concatenating the aforementioned tiles.

Tile forcing the following interval:  $p \in (\frac{a}{2}, \frac{b}{2})$ .

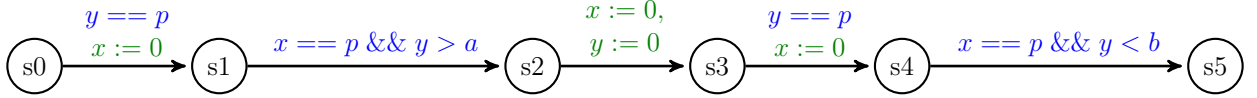


Fig. 3: Tile 3

Please note that Tile 3 can be written more concisely without using concatenation.

Tile forcing the following interval:  $p \in (\frac{a}{2}, \frac{b}{2})$ .

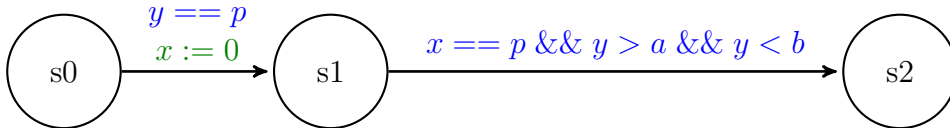


Fig. 4: Tile 4