# AMOD 20-21

## Heuristic

**if** $t + \Delta^i < 180$**:**

    **if** $t = 0$**:**
$$x_t^i = b_t^i$$
    **else if** $t - \Delta^i \geq 0$ **and** $t + 1 - \Delta^i < 0$**:**
$$x_t^i = s_{t-1}^i - x_{t-\Delta^i}^i + b_t^i$$
    **else:**
$$x_t^i = s_{t-1}^i - x_{t-\Delta^i}^i - x_{t+1-\Delta^i}^i + b_t^i$$

    **if** $x_t^i < 0$**:**
$$x_t^i = 0$$

    **if** $t = 0$**:**
$$s_t^i = -x_t^i + b_t^i$$
    **else if** $t - \Delta^i < 0$**:**
$$s_t^i = s_{t-1}^i - x_t^i + b_t^i$$
    **else if** $t - \Delta^i \geq 0$ **and** $t + 1 - \Delta^i < 0$**:**
$$s_t^i = s_{t-1}^i - x_t^i - x_{t-\Delta}^i + b_t^i$$
    **else:**
$$s_t^i = max(s_{t-1}^i - x_t^i - x_{t-\Delta^i}^i + b_t^i,\ x_{t+1-\Delta^i})$$

**else:**
$$x_t^i = 0$$
$$s_t^i = max(s_{t-1}^i - x_t^i - x_{t-\Delta^i}^i + b_t^i,\ x_{t+1-\Delta^i})$$