

COMP 3610/6361

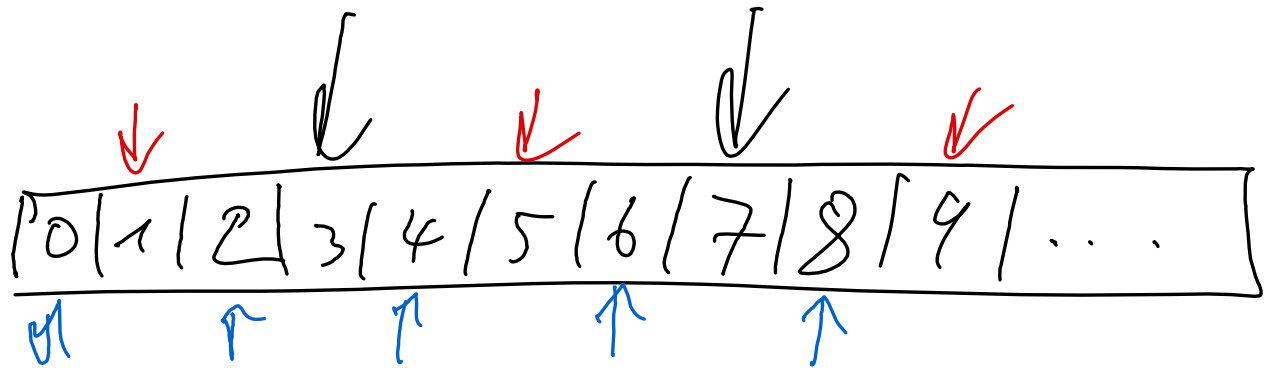
25/10/2023

{true} $x := 0$ || $x := x + 2$ || $y := 7$ $\left\{ \begin{array}{l} x == 2 \\ x == 0 \end{array} \right\}$

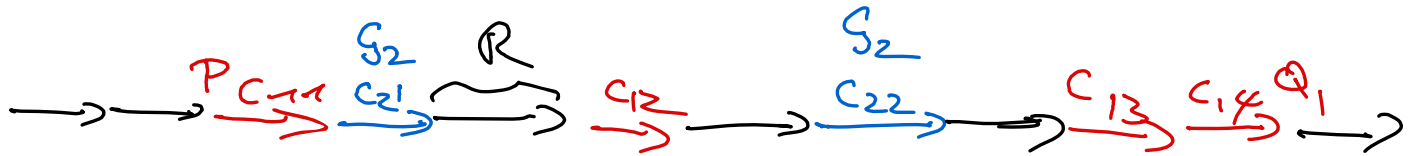
left \downarrow i



right \uparrow j



blads: environment



Back to the example

^{pre} {true, ^{rely} E does not change }
 $i \geq 0, j = 1, x = |A|, y = |B|$

{pre, rely on E}
{pre, end RHS}

LHS

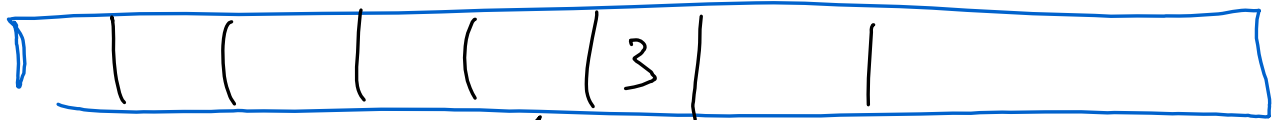
RHS

^r {post,

$$r := \min(x, y)$$

{r is smallest index
with $A[r] > 0$ }

E



↑

↑

↑

↑

|

$y=5$



$$\{P, R\} \xrightarrow{c_1} \{Q, R\}$$

P state under R

$$P(s) \wedge R(s, s') \Rightarrow P(s')$$