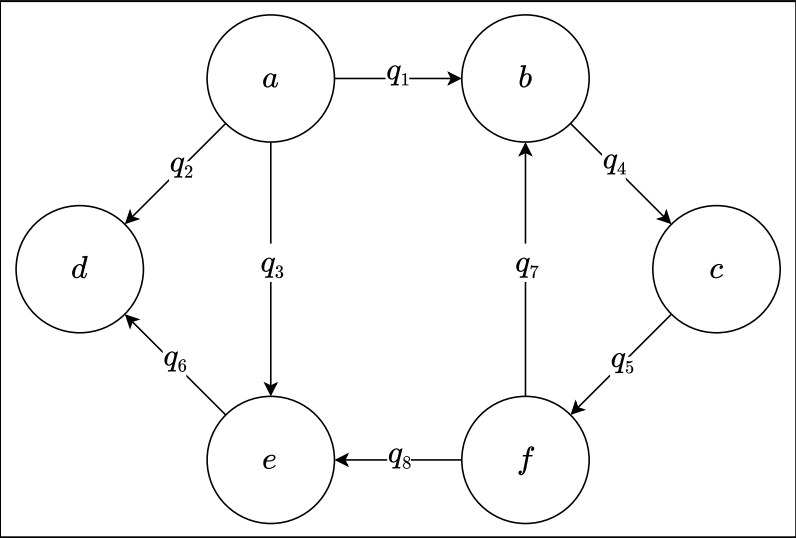


Diskrētās struktūras datorzinātnē

Praktiskā nodarbība. 24.11.25

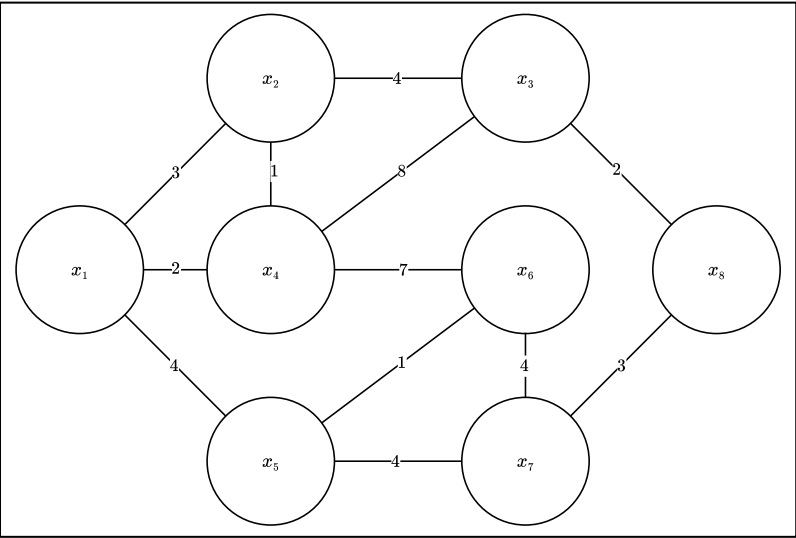


$R =$

	a	b	c	d	e	f
a	0	1	0	1	1	0
b	0	0	1	0	0	0
c	0	0	0	0	0	1
d	0	0	0	0	0	0
e	0	0	0	1	0	0
f	0	1	0	0	1	0

$B =$

	q_1	q_2	q_3	q_4	q_5	q_6	q_7	q_8
a	+	+	+	0	0	0	0	0
b	−	0	0	+	0	0	−	0
c	0	0	0	−	+	0	0	0
d	0	−	0	0	0	−	0	0
e	0	0	−	0	0	+	0	−
f	0	0	0	0	−	0	+	+



$$l(x_1) = 0$$

$$l(x_2) = l(x_3) = l(x_4) = l(x_5) = l(x_6) = l(x_7) = l(x_8) = \infty$$

$$p = x_1 \quad \P 1$$

$$V_i = \Gamma(p) = \Gamma^+(x_1) = x_2, x_4, x_5$$

$$l(V_i) = \min(l(V_i), l(p) + \omega(p_i v_i))$$

$$l(x_2) = \min(\infty, 0 + 3) = 3$$

$$l(x_4) = \min(\infty, 0 + 2) = 2$$

$$l(x_5) = \min(\infty, 0 + 4) = 4$$

x_1^*	x_2	x_3	x_4	x_5	x_6	x_7	x_8
0^*	3	∞	2	4	∞	∞	∞

$$p = x_4 \quad \P 2$$

$$V_i = \Gamma^+(x_4) = x_1^*, x_2, x_3, x_6$$

$$l(x_2) = \min(3, 2 + 1) = 3$$

$$l(x_3) = \min(\infty, 2 + 8) = 10$$

$$l(x_6) = \min(\infty, 2 + 7) = 9$$

x_1^*	x_2^*	x_3	x_4^*	x_5	x_6	x_7	x_8
0^*	3^*	10	2^*	4	9	∞	∞

$$p = x_2 \quad \P 3$$

$$\Gamma^+(x_2) = x_1^*, x_3, x_4^*$$

$$l(x_3) = \min(10, 3 + 4) = 7$$

x_1^*	x_2^*	x_3	x_4^*	x_5	x_6	x_7	x_8
0^*	3^*	7	2^*	4	9	∞	∞

$$p = x_5 \quad \P 4$$

$$\Gamma^+(x_5) = x_1^*, x_6, x_7$$

$$l(x_6) = \min(9, 4 + 1) = 5$$

$$l(x_7) = \min(\infty, 4 + 4) = 8$$

x_1^*	x_2^*	x_3	x_4^*	x_5^*	x_6	x_7	x_8
0^*	3^*	7	2^*	4^*	5	8	∞

$$p = x_6 \quad \P 5$$

$$\Gamma^+(x_6) = x_3, x_4^*, x_5^*, x_7$$

$$l(x_3) = \min(7, 5 + 1) = 6$$

$$l(x_7) = \min()$$