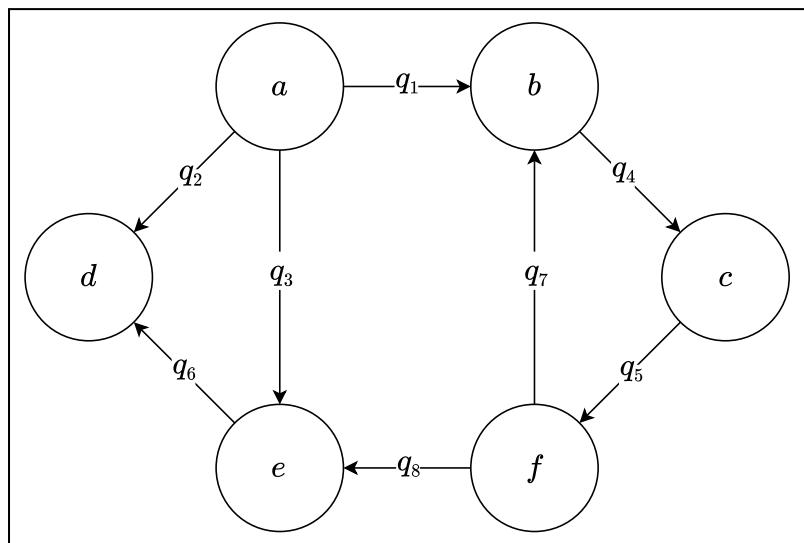


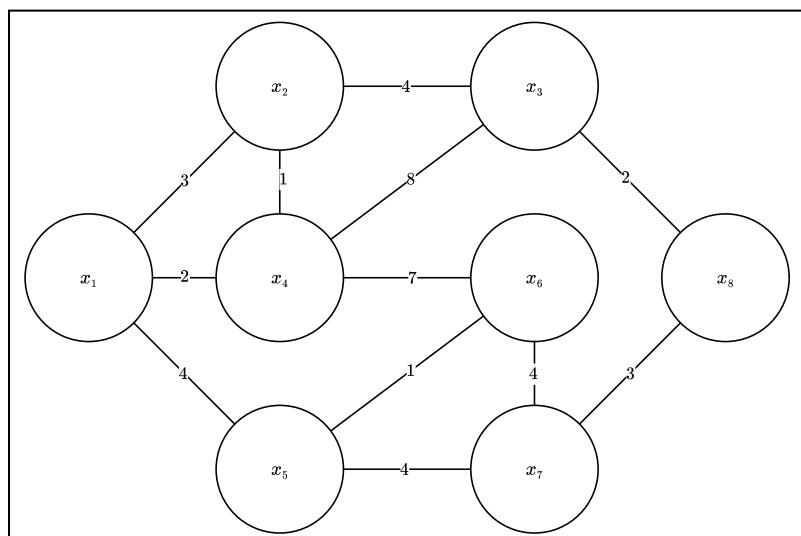
# Diskrētās struktūras datorzinātnē

Praktiskā nodarbība. 24.11.25



	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
<i>a</i>	0	1	0	1	1	0
<i>b</i>	0	0	1	0	0	0
<i>c</i>	0	0	0	0	0	1
<i>d</i>	0	0	0	0	0	0
<i>e</i>	0	0	0	1	0	0
<i>f</i>	0	1	0	0	1	0

	$q_1$	$q_2$	$q_3$	$q_4$	$q_5$	$q_6$	$q_7$	$q_8$
<i>a</i>	+	+	+	0	0	0	0	0
<i>b</i>	-	0	0	+	0	0	-	0
<i>c</i>	0	0	0	-	+	0	0	0
<i>d</i>	0	-	0	0	0	-	0	0
<i>e</i>	0	0	-	0	0	+	0	-
<i>f</i>	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	$\infty$	2	4	$\infty$	$\infty$	$\infty$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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