Bewertungsmatrix:

	x_1	x_2	x_3	x_4	x_5	x_6	x_7	x_8
x_1	0	2	5	4	3	8	2	1
x_2	∞	0	1	6	7	∞	5	3
x_3	3	2	0	5	3	4	2	3
x_4	7	4	5	0	3	6	4	2
x_5	6	2	∞	6	0	∞	5	3
x_6	1	3	1	6	3	0	2	∞
x_7	5	2	4	3	3	∞	0	3
x_8	4	3	5	4	3	2	5	0

.

Es ist

$$\begin{aligned} A = \{&(x_1,x_2),(x_1,x_3),(x_1,x_4),(x_1,x_5),(x_1,x_6),(x_1,x_7),(x_1,x_8),\\ &(x_2,x_3),(x_2,x_4),(x_2,x_5),(x_2,x_7),(x_2,x_8)\\ &(x_3,x_1),(x_3,x_2),(x_3,x_4),(x_3,x_5),(x_3,x_6),(x_3,x_7),(x_3,x_8)\\ &(x_4,x_1),(x_4,x_2),(x_4,x_3),(x_4,x_5),(x_4,x_6),(x_4,x_7),(x_4,x_8)\\ &(x_5,x_1),(x_5,x_2),(x_5,x_4),(x_5,x_7),(x_5,x_8)\\ &(x_6,x_1),(x_6,x_2),(x_6,x_3),(x_6,x_4),(x_6,x_5),(x_6,x_7),\\ &(x_7,x_1),(x_7,x_2),(x_7,x_3),(x_7,x_4),(x_7,x_5),(x_7,x_8)\\ &(x_8,x_1),(x_8,x_2),(x_8,x_3),(x_8,x_4),(x_8,x_5),(x_8,x_6),(x_8,x_7)\} \end{aligned}$$

Schritt 1:
$\mathrm{dist}(x_1) = 0$, $\mathrm{dist}(x_2) = \mathrm{dist}(x_3) = \mathrm{dist}(x_4) = \mathrm{dist}(x_5) = \mathrm{dist}(x_6) = \mathrm{dist}(x_7) = \mathrm{dist}(x_8) = \infty$.

Schritt 2.1:
$\infty = \text{dist}(x_2) > \text{dist}(x_1) + l(x_1, x_2) = 0 + 2 \Rightarrow \text{pred}(x_2) = x_1,\ \text{dist}(x_2) = 2.$
$\infty = \text{dist}(x_3) > \text{dist}(x_1) + l(x_1, x_3) = 0 + 5 \Rightarrow \text{pred}(x_3) = x_1,\ \text{dist}(x_3) = 5.$
$\infty = \text{dist}(x_4) > \text{dist}(x_1) + l(x_1, x_4) = 0 + 4 \Rightarrow \text{pred}(x_4) = x_1,\ \text{dist}(x_4) = 4.$
$\infty = \text{dist}(x_5) > \text{dist}(x_1) + l(x_1, x_5) = 0 + 3 \Rightarrow \text{pred}(x_5) = x_1,\ \text{dist}(x_5) = 3.$
$\infty = \text{dist}(x_6) > \text{dist}(x_1) + l(x_1, x_6) = 0 + 8 \Rightarrow \text{pred}(x_6) = x_1,\ \text{dist}(x_6) = 8.$
$\infty = \text{dist}(x_7) > \text{dist}(x_1) + l(x_1, x_7) = 0 + 2 \Rightarrow \text{pred}(x_7) = x_1,\ \text{dist}(x_7) = 2.$
$\infty = \text{dist}(x_8) > \text{dist}(x_1) + l(x_1, x_8) = 0 + 1 \Rightarrow \text{pred}(x_8) = x_1,\ \text{dist}(x_8) = 1.$

$5 = \text{dist}(x_3) > \text{dist}(x_2) + l(x_2, x_3) = 2 + 1 \Rightarrow \text{pred}(x_3) = x_2,\ \text{dist}(x_3) = 3.$
$4 = \text{dist}(x_4) \leq \text{dist}(x_2) + l(x_2, x_4) = 2 + 6.$
$3 = \text{dist}(x_5) \leq \text{dist}(x_2) + l(x_2, x_5) = 2 + 7.$
$2 = \text{dist}(x_7) \leq \text{dist}(x_2) + l(x_2, x_7) = 2 + 5.$
$1 = \text{dist}(x_8) \leq \text{dist}(x_2) + l(x_2, x_8) = 2 + 3.$

$0 = \text{dist}(x_1) \leq \text{dist}(x_3) + l(x_3, x_1) = 3 + 3.$
$2 = \text{dist}(x_2) \leq \text{dist}(x_3) + l(x_3, x_2) = 3 + 2.$
$4 = \text{dist}(x_4) \leq \text{dist}(x_3) + l(x_3, x_4) = 3 + 5.$
$3 = \text{dist}(x_5) \leq \text{dist}(x_3) + l(x_3, x_5) = 3 + 3.$
$8 = \text{dist}(x_6) > \text{dist}(x_3) + l(x_3, x_6) = 3 + 4 \Rightarrow \text{pred}(x_6) = x_3,\ \text{dist}(x_6) = 7.$
$2 = \text{dist}(x_7) \leq \text{dist}(x_3) + l(x_3, x_7) = 3 + 2.$
$1 = \text{dist}(x_8) \leq \text{dist}(x_3) + l(x_3, x_8) = 3 + 3.$

$0 = \text{dist}(x_1) \leq \text{dist}(x_4) + l(x_4, x_1) = 4 + 7.$
$2 = \text{dist}(x_2) \leq \text{dist}(x_4) + l(x_4, x_2) = 4 + 4.$
$3 = \text{dist}(x_3) \leq \text{dist}(x_4) + l(x_4, x_3) = 4 + 5.$
$3 = \text{dist}(x_5) \leq \text{dist}(x_4) + l(x_4, x_5) = 4 + 3.$
$7 = \text{dist}(x_6) \leq \text{dist}(x_4) + l(x_4, x_6) = 4 + 6.$
$2 = \text{dist}(x_7) \leq \text{dist}(x_4) + l(x_4, x_7) = 4 + 4.$
$1 = \text{dist}(x_8) \leq \text{dist}(x_4) + l(x_4, x_8) = 4 + 2.$

$0 = \text{dist}(x_1) \leq \text{dist}(x_5) + l(x_5, x_1) = 3 + 6.$
$2 = \text{dist}(x_2) \leq \text{dist}(x_5) + l(x_5, x_2) = 3 + 2.$
$4 = \text{dist}(x_4) \leq \text{dist}(x_5) + l(x_5, x_4) = 3 + 6.$
$2 = \text{dist}(x_7) \leq \text{dist}(x_5) + l(x_5, x_7) = 3 + 5.$
$1 = \text{dist}(x_8) \leq \text{dist}(x_5) + l(x_5, x_8) = 3 + 3.$

$0 = \text{dist}(x_1) \leq \text{dist}(x_6) + l(x_6, x_1) = 7 + 1.$
$2 = \text{dist}(x_2) \leq \text{dist}(x_6) + l(x_6, x_2) = 7 + 3.$
$3 = \text{dist}(x_3) \leq \text{dist}(x_6) + l(x_6, x_3) = 7 + 1.$
$4 = \text{dist}(x_4) \leq \text{dist}(x_6) + l(x_6, x_4) = 7 + 6.$
$3 = \text{dist}(x_5) \leq \text{dist}(x_6) + l(x_6, x_5) = 7 + 3.$
$2 = \text{dist}(x_7) \leq \text{dist}(x_6) + l(x_6, x_7) = 7 + 2.$

$0 = \text{dist}(x_1) \leq \text{dist}(x_7) + l(x_7, x_1) = 2 + 5.$
$2 = \text{dist}(x_2) \leq \text{dist}(x_7) + l(x_7, x_2) = 2 + 2.$
$3 = \text{dist}(x_3) \leq \text{dist}(x_7) + l(x_7, x_3) = 2 + 4.$
$4 = \text{dist}(x_4) \leq \text{dist}(x_7) + l(x_7, x_4) = 2 + 3.$
$3 = \text{dist}(x_5) \leq \text{dist}(x_7) + l(x_7, x_5) = 2 + 3.$
$1 = \text{dist}(x_8) \leq \text{dist}(x_7) + l(x_7, x_8) = 2 + 3.$

$0 = \text{dist}(x_1) \leq \text{dist}(x_8) + l(x_8, x_1) = 1 + 4.$
$2 = \text{dist}(x_2) \leq \text{dist}(x_8) + l(x_8, x_2) = 1 + 3.$
$3 = \text{dist}(x_3) \leq \text{dist}(x_8) + l(x_8, x_3) = 1 + 5.$
$4 = \text{dist}(x_4) \leq \text{dist}(x_8) + l(x_8, x_4) = 1 + 4.$
$3 = \text{dist}(x_5) \leq \text{dist}(x_8) + l(x_8, x_5) = 1 + 3.$
$7 = \text{dist}(x_6) > \text{dist}(x_8) + l(x_8, x_6) = 1 + 2 \Rightarrow \text{pred}(x_6) = x_8,\ \text{dist}(x_6) = 3.$
$2 = \text{dist}(x_7) \leq \text{dist}(x_8) + l(x_8, x_7) = 1 + 5.$

Schritt 2.2 - Schritt 2.7:

$2 = \text{dist}(x_2) \leq \text{dist}(x_1) + l(x_1, x_2) = 0 + 2.$
$3 = \text{dist}(x_3) \leq \text{dist}(x_1) + l(x_1, x_3) = 0 + 5.$
$4 = \text{dist}(x_4) \leq \text{dist}(x_1) + l(x_1, x_4) = 0 + 4.$
$3 = \text{dist}(x_5) \leq \text{dist}(x_1) + l(x_1, x_5) = 0 + 3.$
$3 = \text{dist}(x_6) \leq \text{dist}(x_1) + l(x_1, x_6) = 0 + 8.$
$2 = \text{dist}(x_7) \leq \text{dist}(x_1) + l(x_1, x_7) = 0 + 2.$
$1 = \text{dist}(x_8) \leq \text{dist}(x_1) + l(x_1, x_8) = 0 + 1.$

$3 = \text{dist}(x_3) \leq \text{dist}(x_2) + l(x_2, x_3) = 2 + 1.$
$4 = \text{dist}(x_4) \leq \text{dist}(x_2) + l(x_2, x_4) = 2 + 6.$
$3 = \text{dist}(x_5) \leq \text{dist}(x_2) + l(x_2, x_5) = 2 + 7.$
$2 = \text{dist}(x_7) \leq \text{dist}(x_2) + l(x_2, x_7) = 2 + 5.$
$1 = \text{dist}(x_8) \leq \text{dist}(x_2) + l(x_2, x_8) = 2 + 3.$

$0 = \text{dist}(x_1) \leq \text{dist}(x_3) + l(x_3, x_1) = 3 + 3.$
$2 = \text{dist}(x_2) \leq \text{dist}(x_3) + l(x_3, x_2) = 3 + 2.$
$4 = \text{dist}(x_4) \leq \text{dist}(x_3) + l(x_3, x_4) = 3 + 5.$
$3 = \text{dist}(x_5) \leq \text{dist}(x_3) + l(x_3, x_5) = 3 + 3.$
$3 = \text{dist}(x_6) \leq \text{dist}(x_3) + l(x_3, x_6) = 3 + 4.$
$2 = \text{dist}(x_7) \leq \text{dist}(x_3) + l(x_3, x_7) = 3 + 2.$
$1 = \text{dist}(x_8) \leq \text{dist}(x_3) + l(x_3, x_8) = 3 + 3.$

$0 = \text{dist}(x_1) \leq \text{dist}(x_4) + l(x_4, x_1) = 4 + 7.$
$2 = \text{dist}(x_2) \leq \text{dist}(x_4) + l(x_4, x_2) = 4 + 4.$
$3 = \text{dist}(x_3) \leq \text{dist}(x_4) + l(x_4, x_3) = 4 + 5.$
$3 = \text{dist}(x_5) \leq \text{dist}(x_4) + l(x_4, x_5) = 4 + 3.$
$3 = \text{dist}(x_6) \leq \text{dist}(x_4) + l(x_4, x_6) = 4 + 6.$
$2 = \text{dist}(x_7) \leq \text{dist}(x_4) + l(x_4, x_7) = 4 + 4.$
$1 = \text{dist}(x_8) \leq \text{dist}(x_4) + l(x_4, x_8) = 4 + 2.$

$0 = \text{dist}(x_1) \leq \text{dist}(x_5) + l(x_5, x_1) = 3 + 6.$
$2 = \text{dist}(x_2) \leq \text{dist}(x_5) + l(x_5, x_2) = 3 + 2.$
$4 = \text{dist}(x_4) \leq \text{dist}(x_5) + l(x_5, x_4) = 3 + 6.$
$2 = \text{dist}(x_7) \leq \text{dist}(x_5) + l(x_5, x_7) = 3 + 5.$
$1 = \text{dist}(x_8) \leq \text{dist}(x_5) + l(x_5, x_8) = 3 + 3.$

$0 = \text{dist}(x_1) \leq \text{dist}(x_6) + l(x_6, x_1) = 3 + 1.$
$2 = \text{dist}(x_2) \leq \text{dist}(x_6) + l(x_6, x_2) = 3 + 3.$
$3 = \text{dist}(x_3) \leq \text{dist}(x_6) + l(x_6, x_3) = 3 + 1.$
$4 = \text{dist}(x_4) \leq \text{dist}(x_6) + l(x_6, x_4) = 3 + 6.$
$3 = \text{dist}(x_5) \leq \text{dist}(x_6) + l(x_6, x_5) = 3 + 3.$
$2 = \text{dist}(x_7) \leq \text{dist}(x_6) + l(x_6, x_7) = 3 + 2.$

$0 = \text{dist}(x_1) \leq \text{dist}(x_7) + l(x_7, x_1) = 2 + 5.$
$2 = \text{dist}(x_2) \leq \text{dist}(x_7) + l(x_7, x_2) = 2 + 2.$
$3 = \text{dist}(x_3) \leq \text{dist}(x_7) + l(x_7, x_3) = 2 + 4.$
$4 = \text{dist}(x_4) \leq \text{dist}(x_7) + l(x_7, x_4) = 2 + 3.$
$3 = \text{dist}(x_5) \leq \text{dist}(x_7) + l(x_7, x_5) = 2 + 3.$
$1 = \text{dist}(x_8) \leq \text{dist}(x_7) + l(x_7, x_8) = 2 + 3.$

$0 = \text{dist}(x_1) \leq \text{dist}(x_8) + l(x_8, x_1) = 1 + 4.$
$2 = \text{dist}(x_2) \leq \text{dist}(x_8) + l(x_8, x_2) = 1 + 3.$
$3 = \text{dist}(x_3) \leq \text{dist}(x_8) + l(x_8, x_3) = 1 + 5.$
$4 = \text{dist}(x_4) \leq \text{dist}(x_8) + l(x_8, x_4) = 1 + 4.$
$3 = \text{dist}(x_5) \leq \text{dist}(x_8) + l(x_8, x_5) = 1 + 3.$
$3 = \text{dist}(x_6) \leq \text{dist}(x_8) + l(x_8, x_6) = 1 + 2.$
$2 = \text{dist}(x_7) \leq \text{dist}(x_8) + l(x_8, x_7) = 1 + 5.$