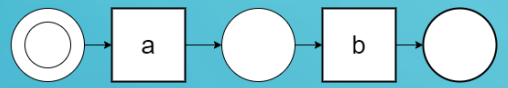
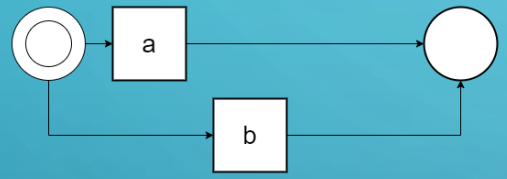
INDUCTIVE MINER

4 ZUSTÄNDE

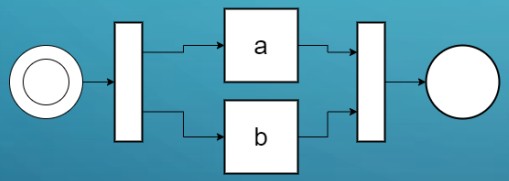
- Sequence:



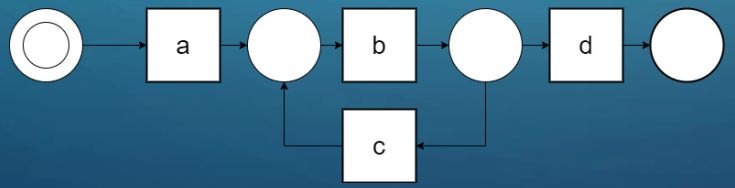
- Choice:



- Parallel:



- Loop:



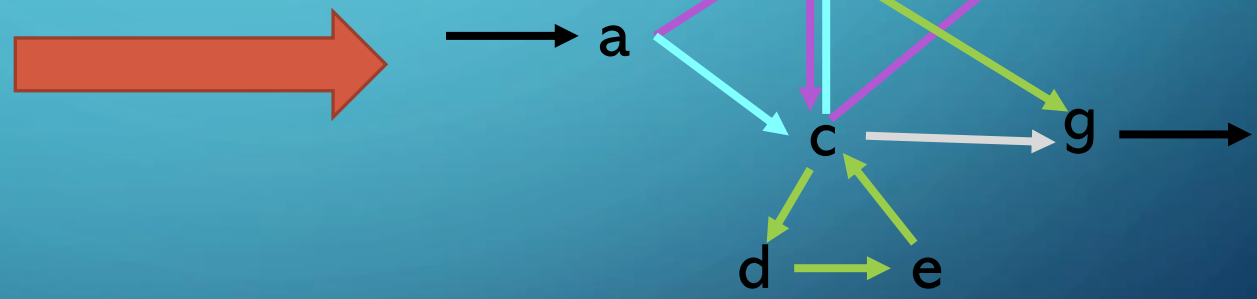
EVENT LOG

a	b	c	f

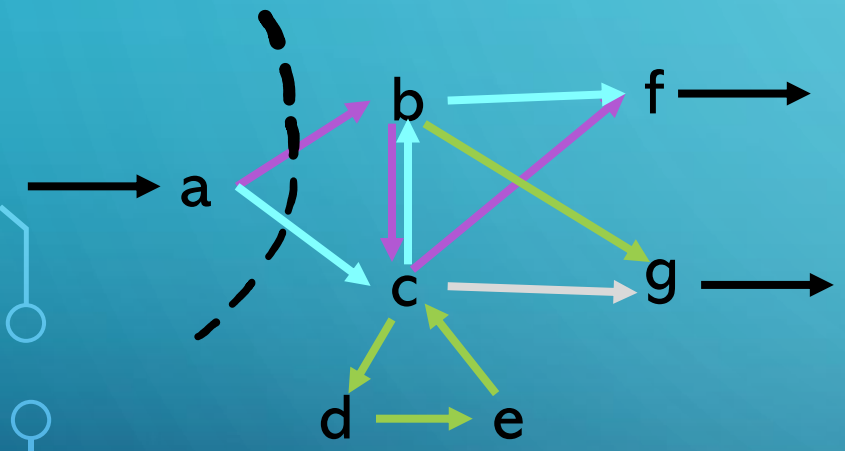
a	c	b	f

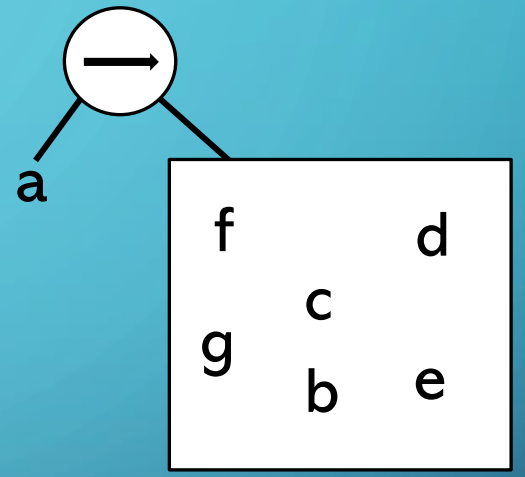
a	b	c	d	e	c	b	g

a	c	d	e	c	d	e	c	g

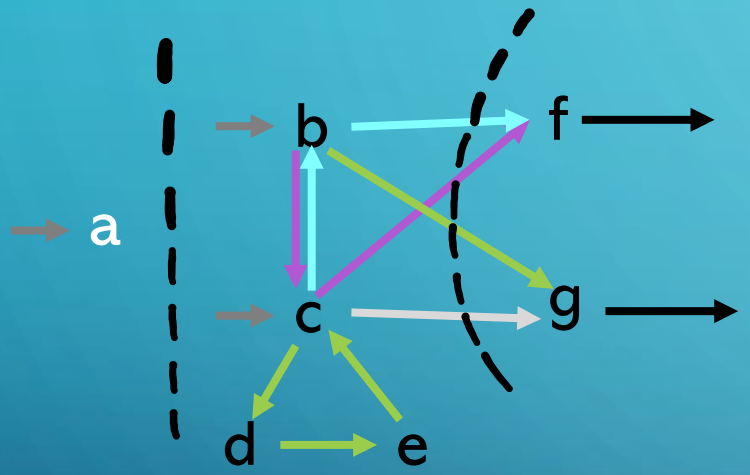


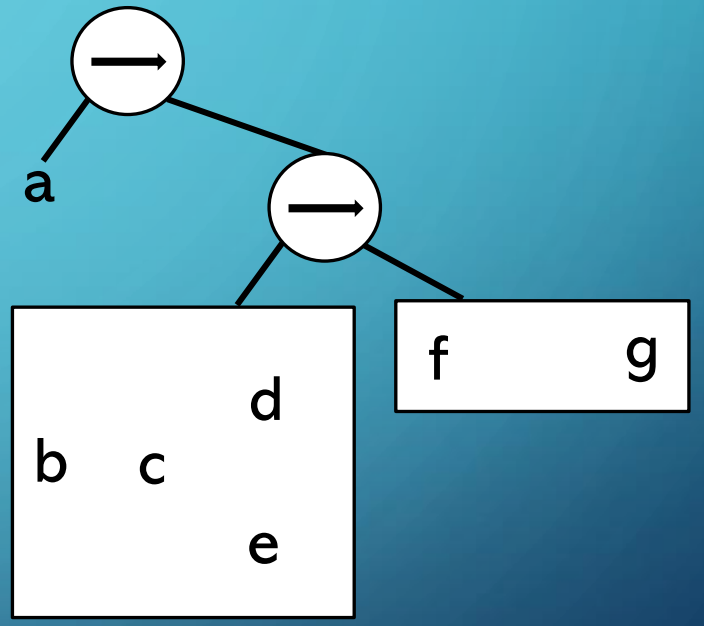
SEQUENCE CUT



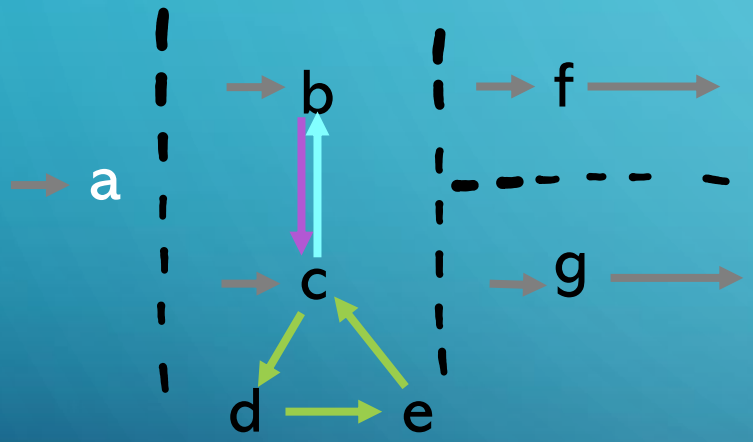


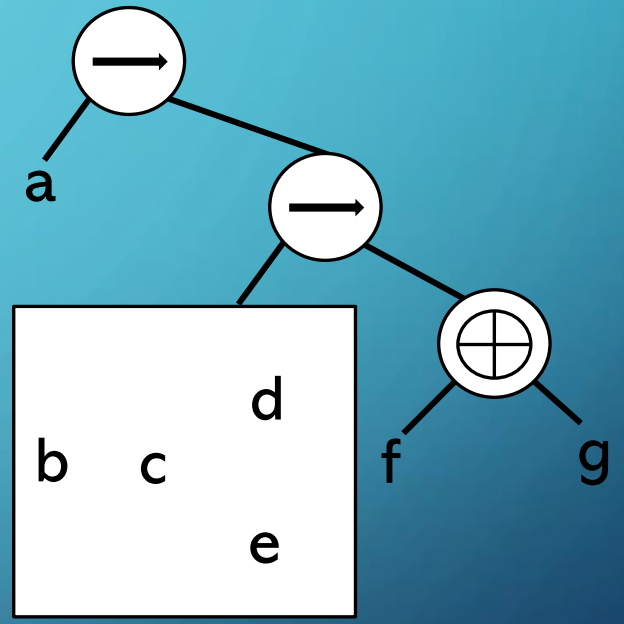
SEQUENCE CUT



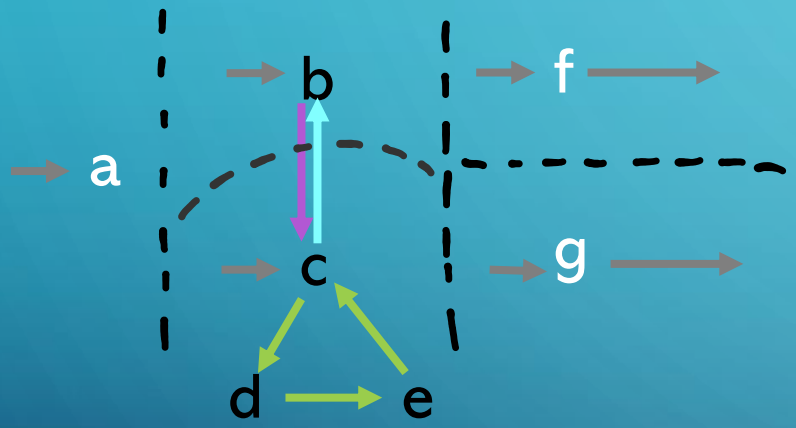


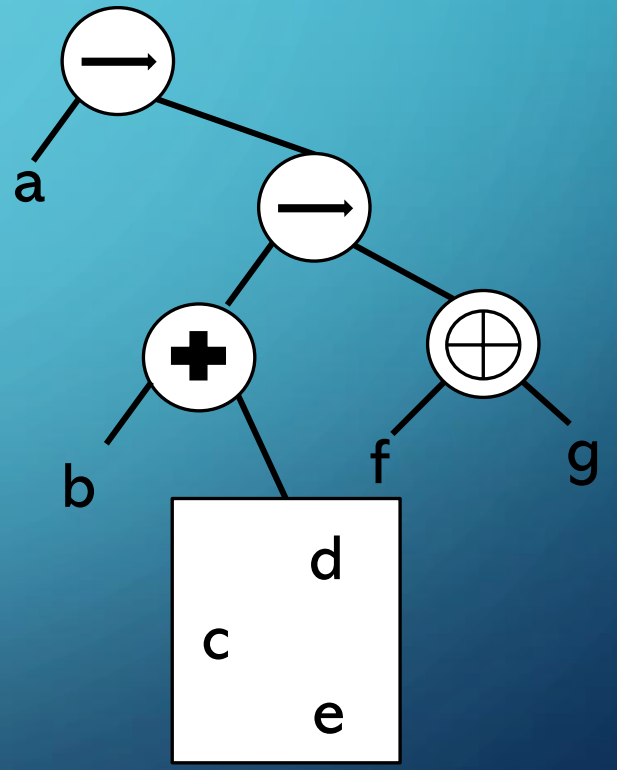
CHOICE CUT



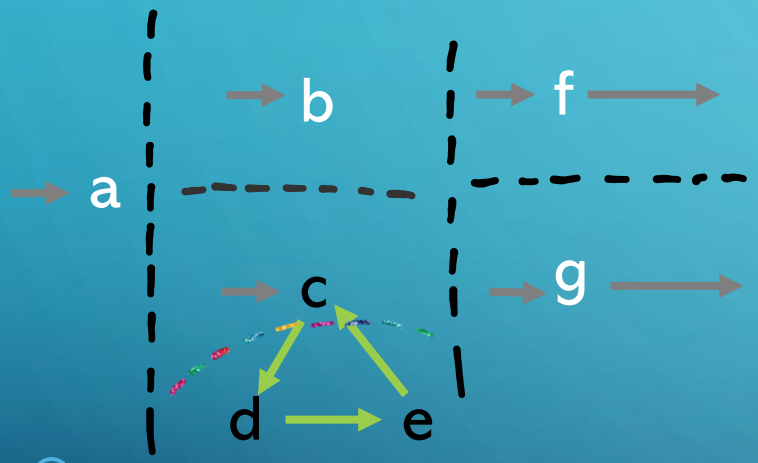


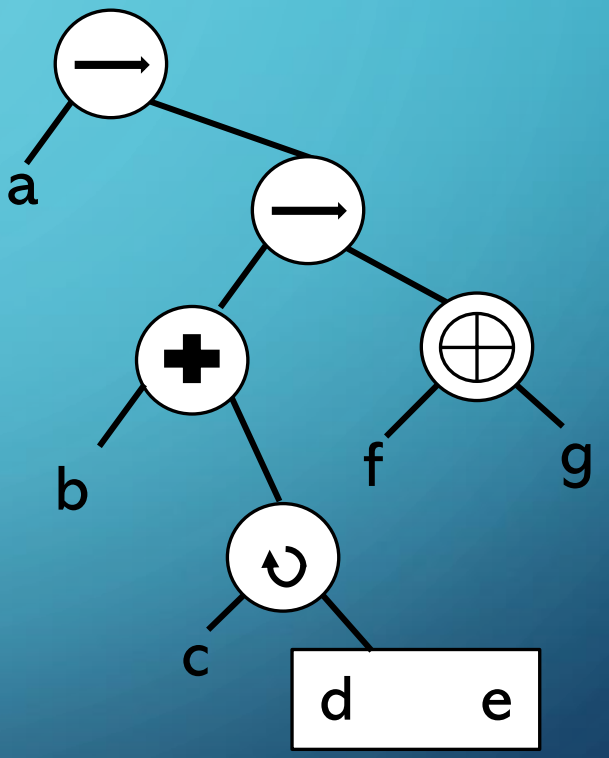
PARALLEL CUT



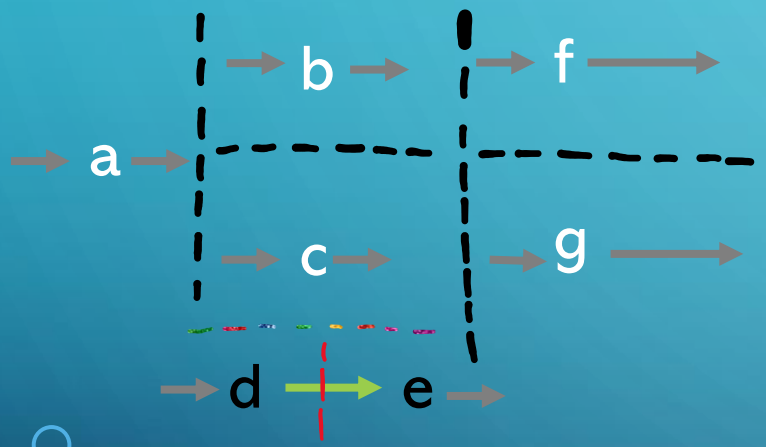


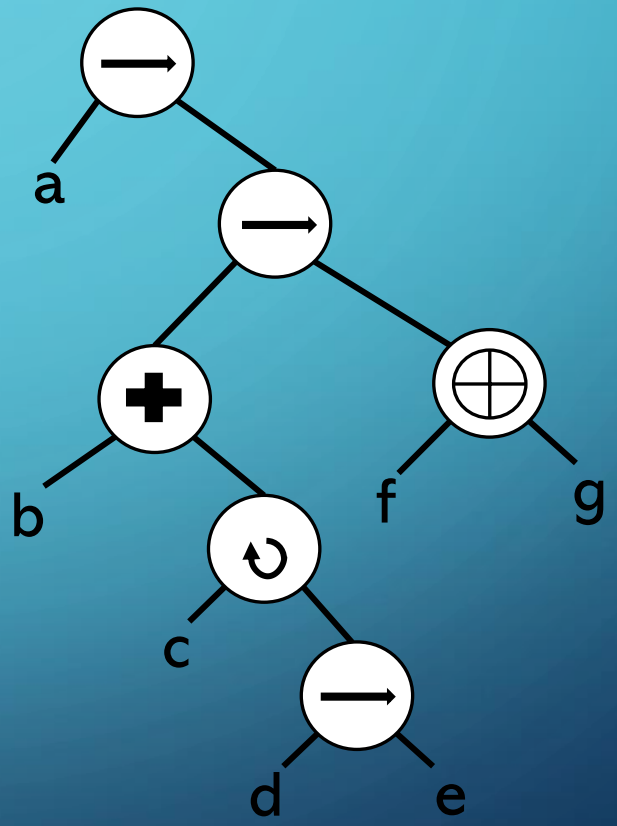
LOOP CUT



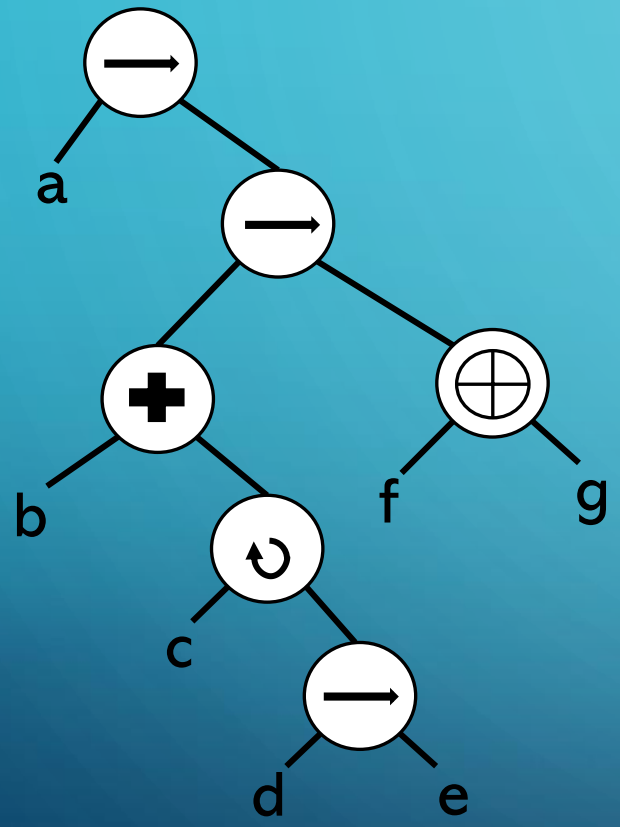


SEQUENCE CUT

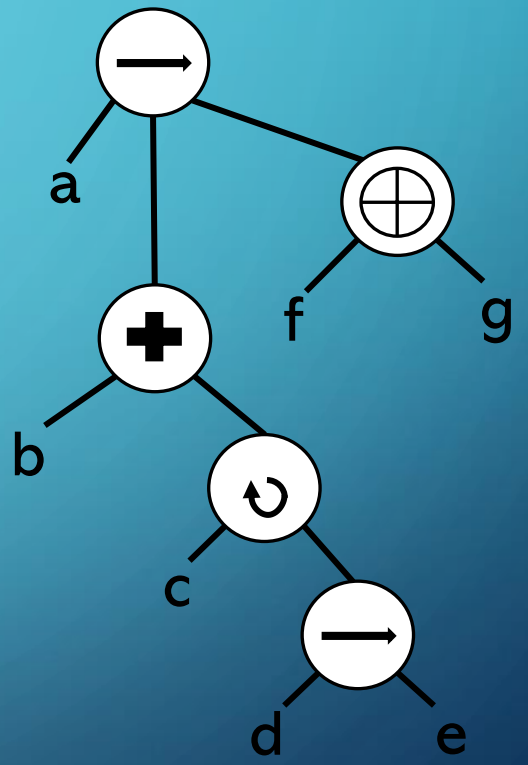




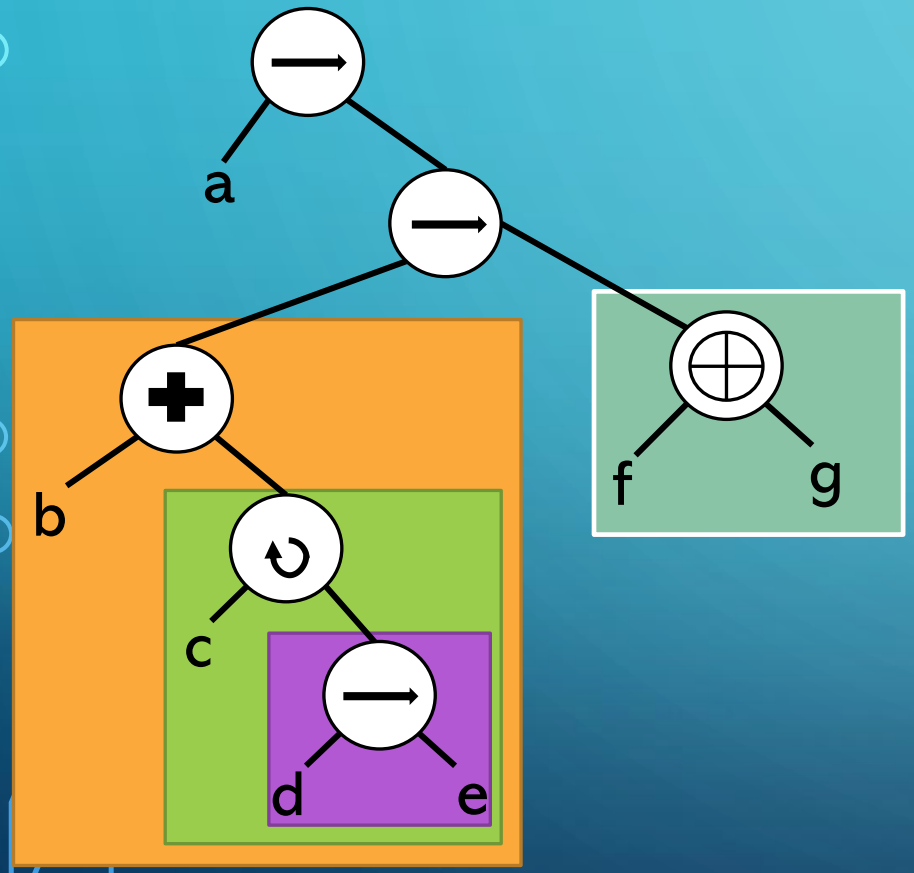
ERGEBNIS-BAUM

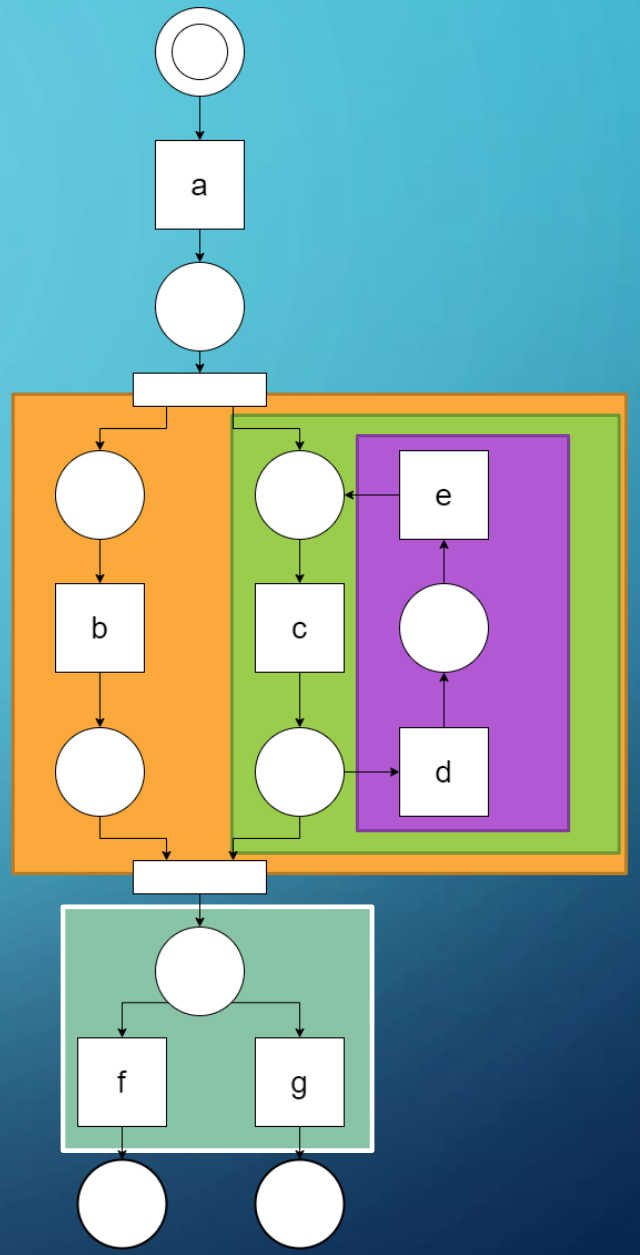


„einfachere“ Darstellung



UMWANDELN IN PETRI-NETZ

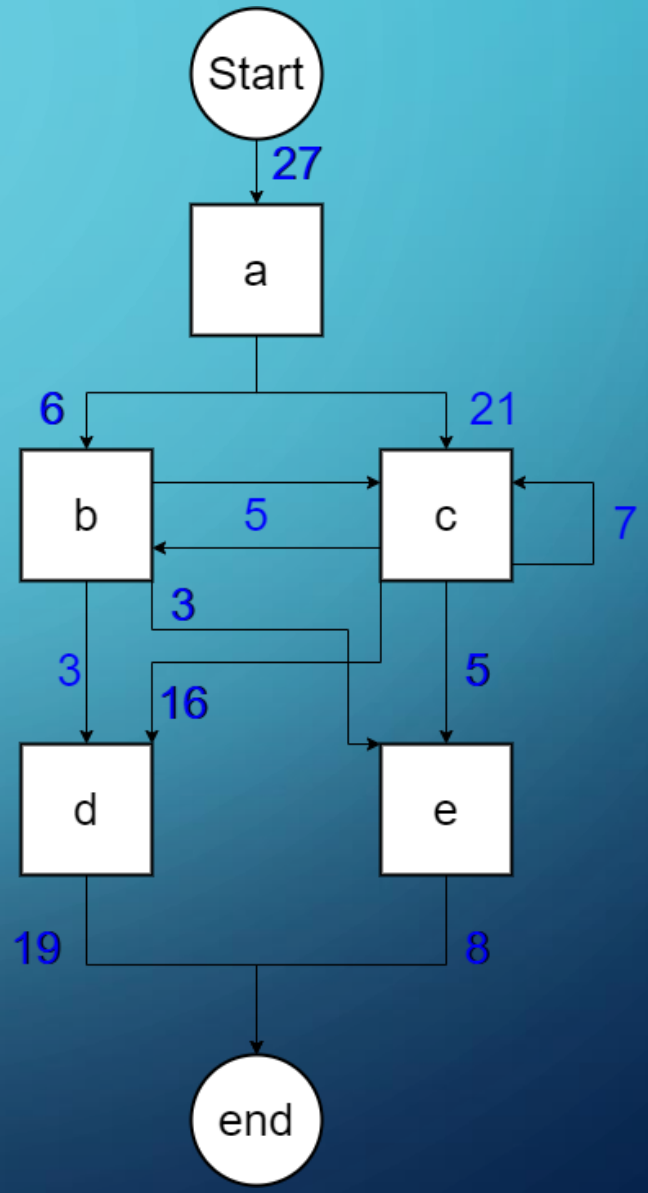




HEURISTIC MINER

DIRECT FOLLOWS GRAPH

Relation	Häufigkeit
(-, a)	27
(a, b)	6
(a, c)	21
(b, c)	5
(b, d)	3
(b, e)	3
(c, b)	5
(c, c)	7
(c, d)	16
(c, e)	5
(d, -)	19
(e, -)	8



BERECHNUNG ABHÄNGIGKEITSMAß

$$a \Rightarrow^L b = \begin{cases} \dfrac{|a >^L b| - |b >^L a|}{|a >^L b| + |b >^L a| + 1}, & \text{for } a \neq b \\ \dfrac{|a >^L a|}{|a >^L a| + 1} & \text{otherwise} \end{cases}$$

L	Ereignislog
a and **b**	Aktivitäten / Aktivitätsidentifizier
$a >^L b$	a directly-follows b
|	Häufigkeit / Kardinalität

$$\frac{7}{7+1}$$

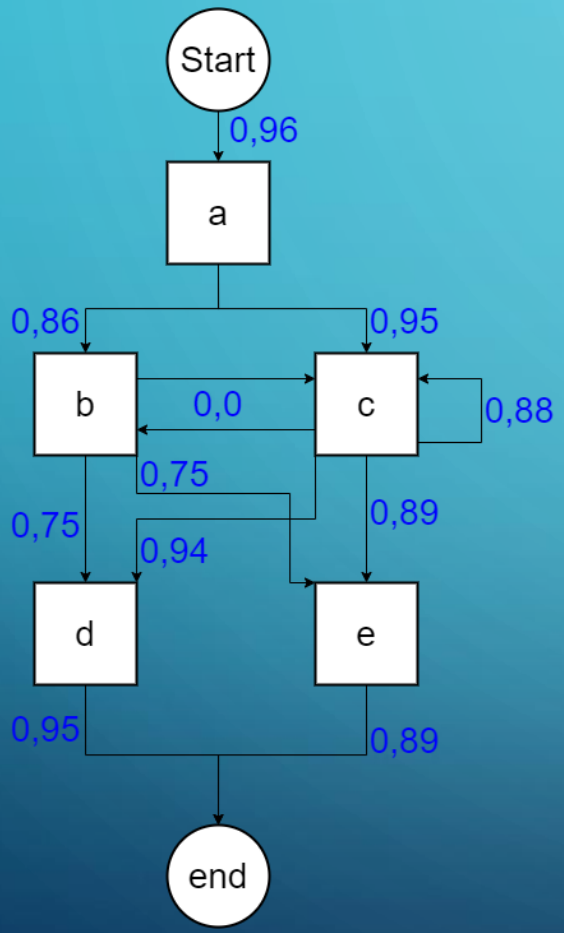
Relation	Häufigkeit	Abhängigkeit
(-, a)	27	0,96
(a, b)	6	0,86
(a, c)	21	0,95
(b, c)	5	0,0
(b, d)	3	0,75
(b, e)	3	0,75
(c, b)	5	0,0
(c, c)	7	0,88
(c, d)	16	0,94
(c, e)	5	0,89
(d, -)	19	0,95
(e, -)	8	0,89

$$\frac{27-0}{27+0+1}$$

$$\frac{5-5}{5+5+1}$$

$$\frac{5-5}{5+5+1}$$

ABHÄNGIGKEITSGRAPH



Filter: Nur alles größer 0,9 ist erlaubt