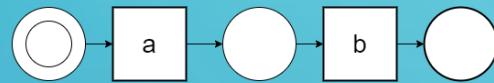


A decorative graphic on the left side of the slide, consisting of a network of white lines and small circles on a blue gradient background, resembling a circuit board or data flow diagram.

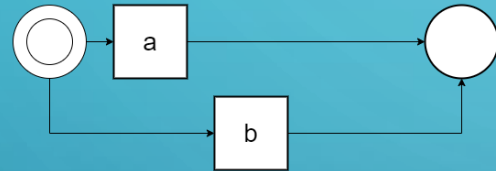
# INDUCTIVE MINER

## 4 ZUSTÄNDE

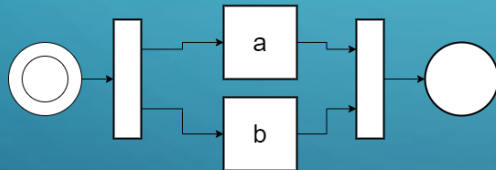
- Sequence:



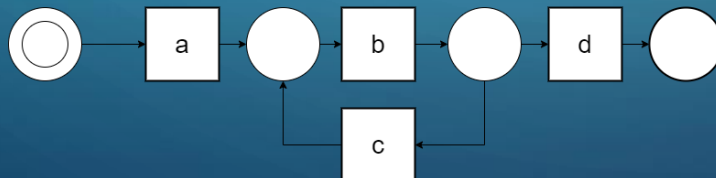
- Choice:



- Parallel:



- Loop:



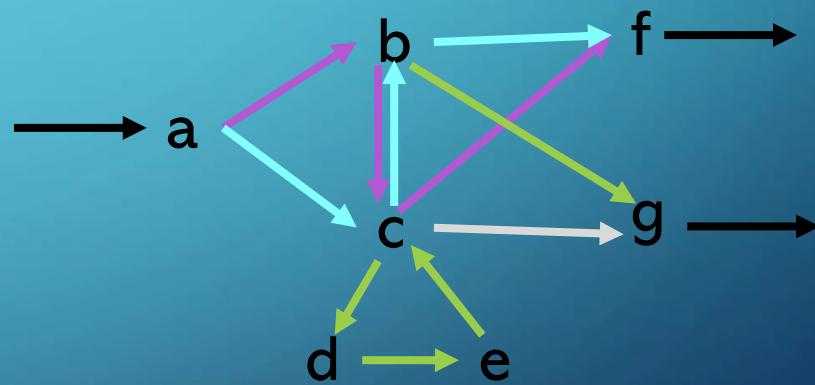
# EVENT LOG

a	b	c	f
---	---	---	---

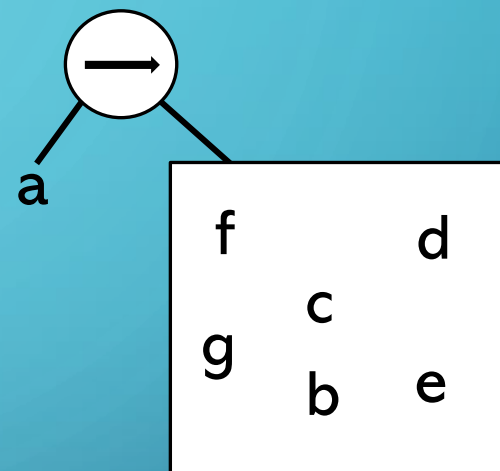
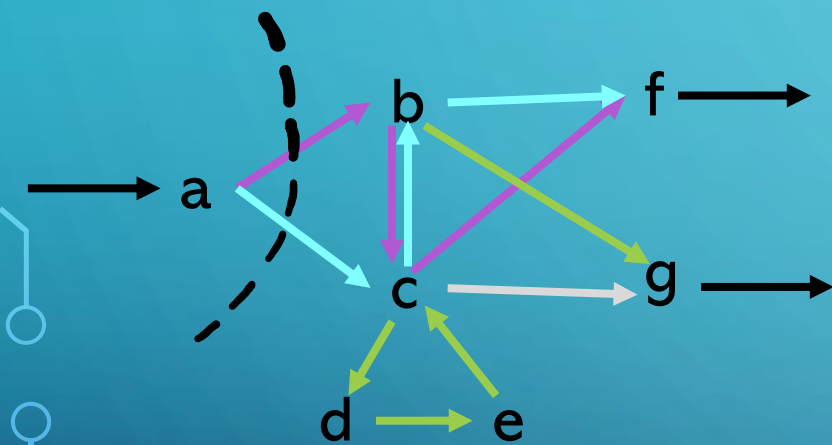
a	c	b	f
---	---	---	---

a	b	c	d	e	c	b	g
---	---	---	---	---	---	---	---

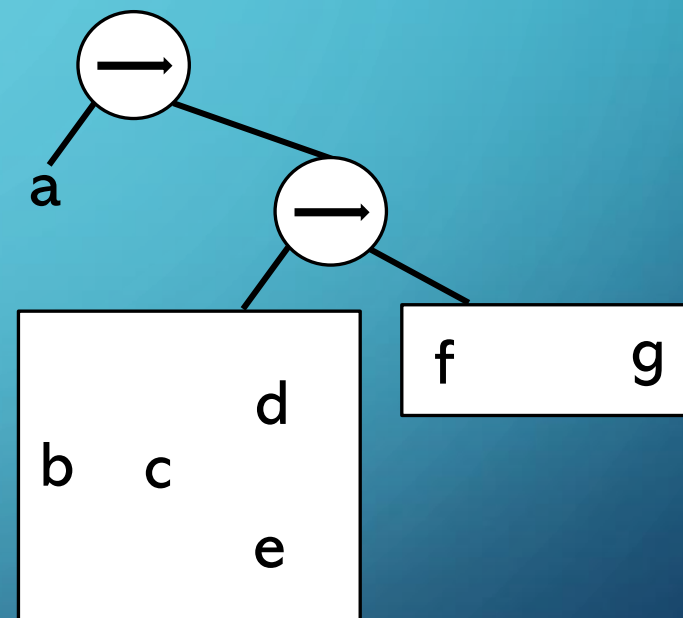
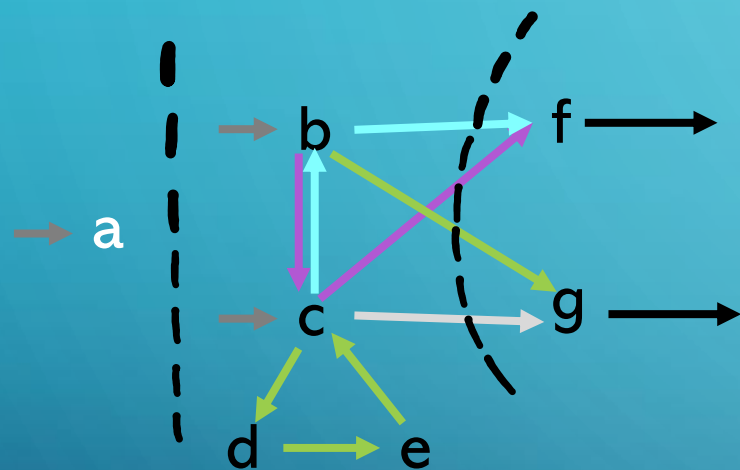
a	c	d	e	c	d	e	c	g
---	---	---	---	---	---	---	---	---



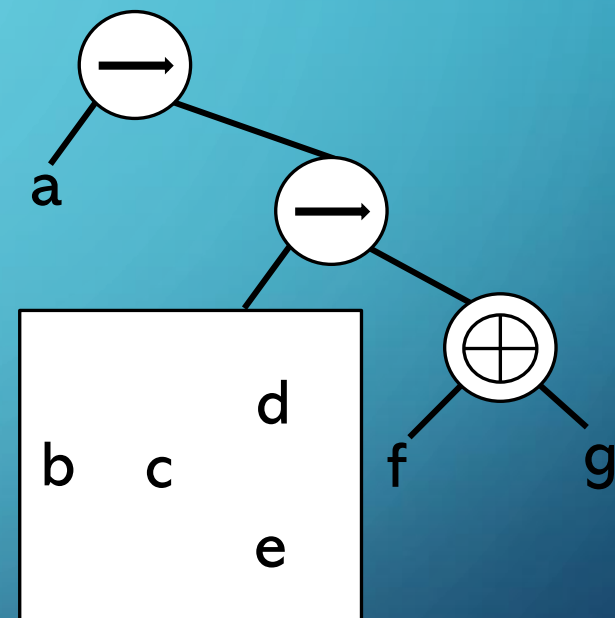
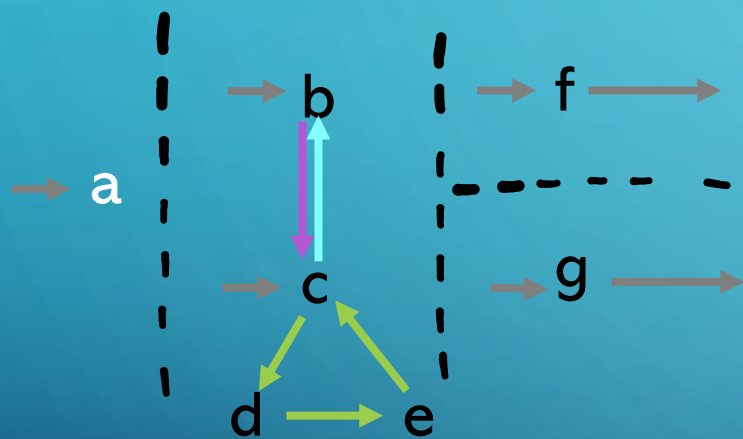
# SEQUENCE CUT



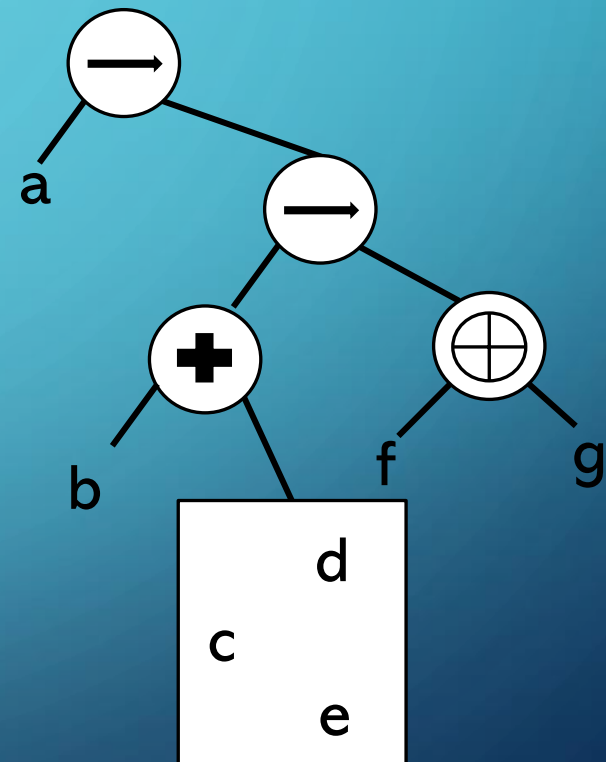
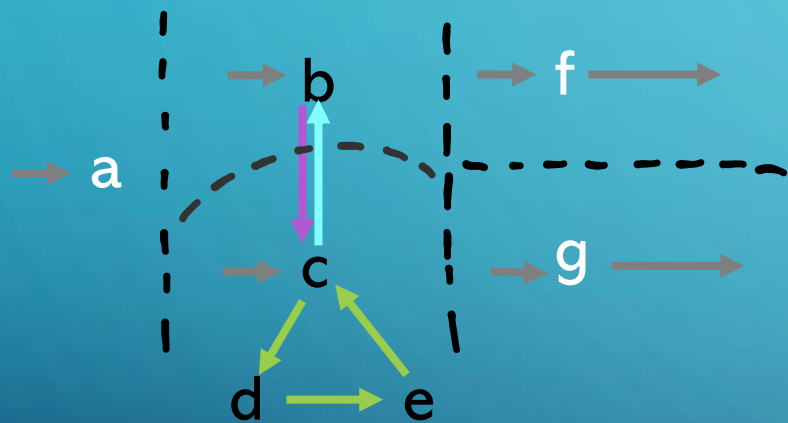
# SEQUENCE CUT



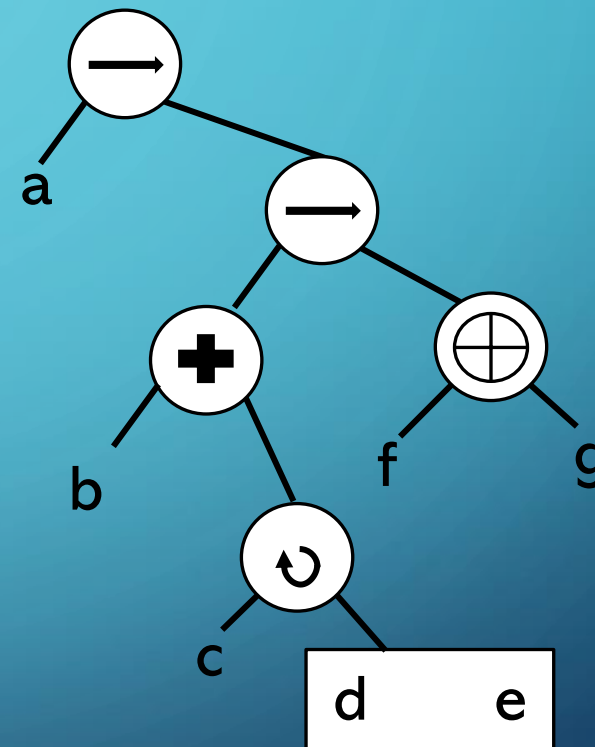
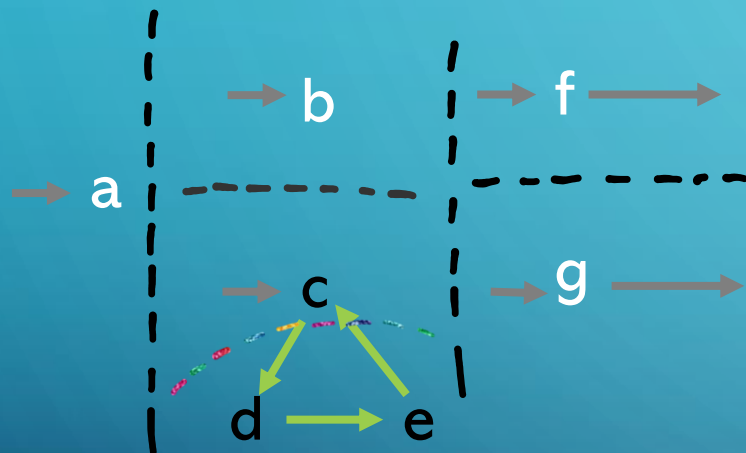
# CHOICE CUT



# PARALLEL CUT

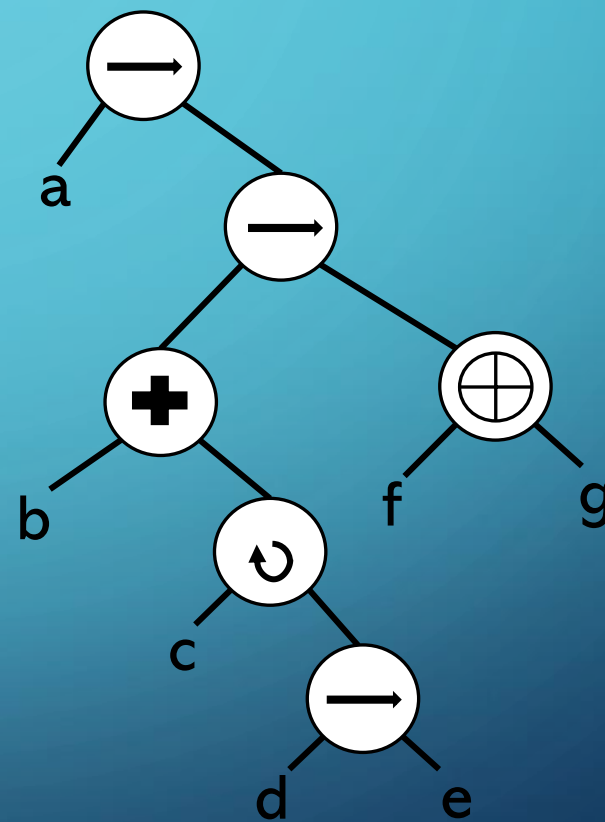
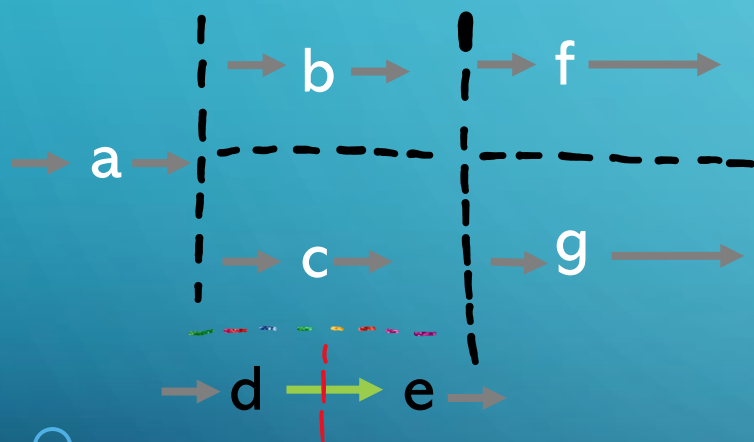


# LOOP CUT

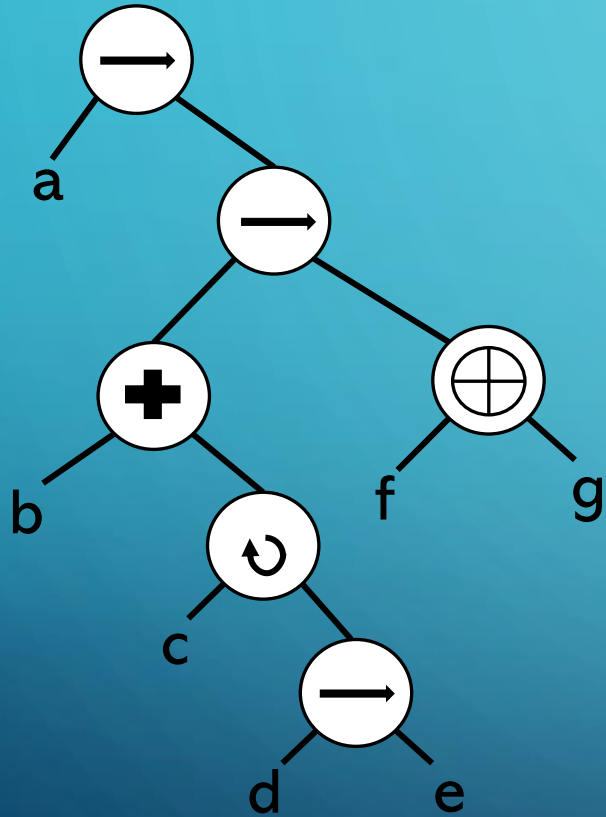




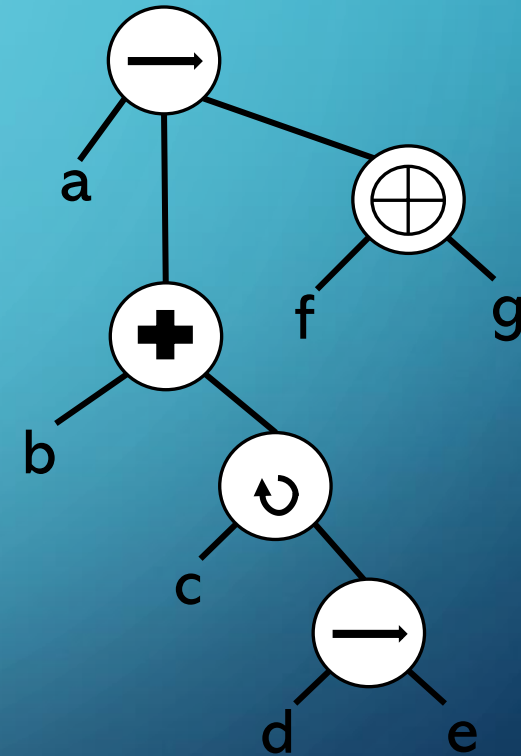
# SEQUENCE CUT



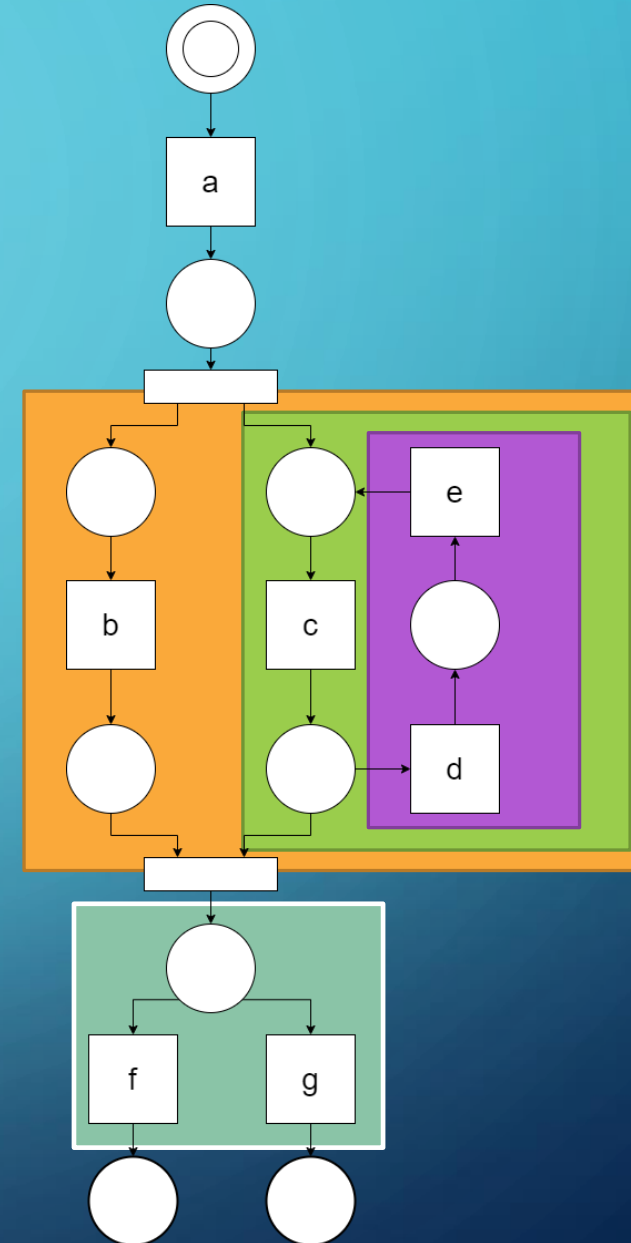
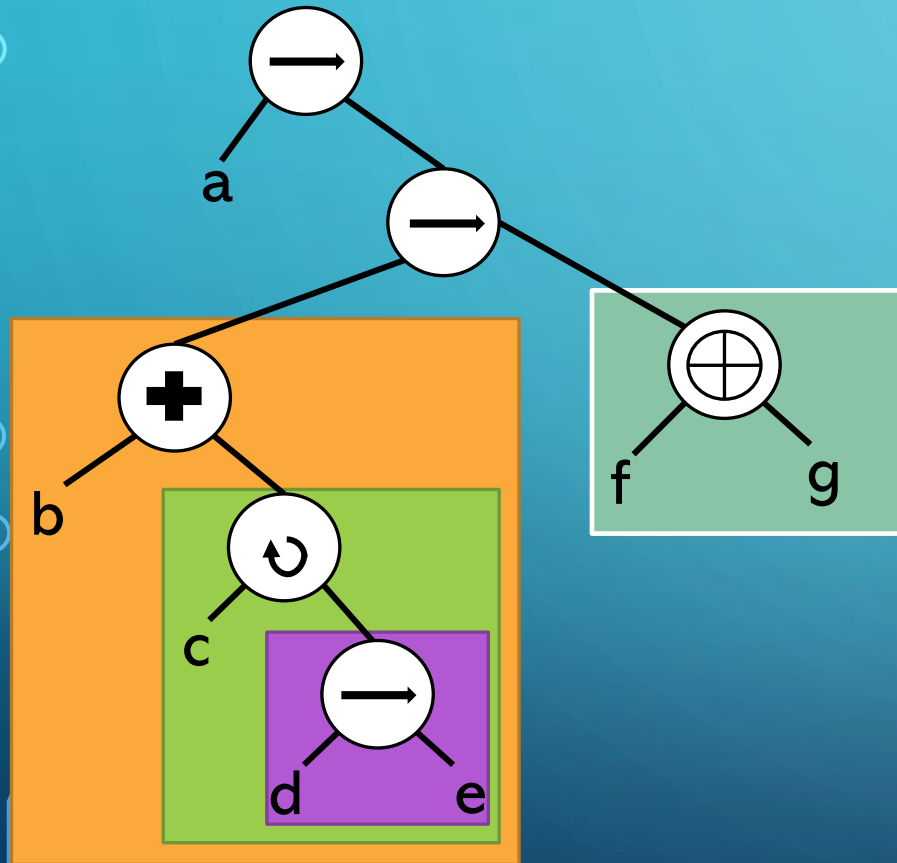
# ERGEBNIS-BAUM



„einfachere“ Darstellung



# UMWANDELN IN PETRI-NETZ

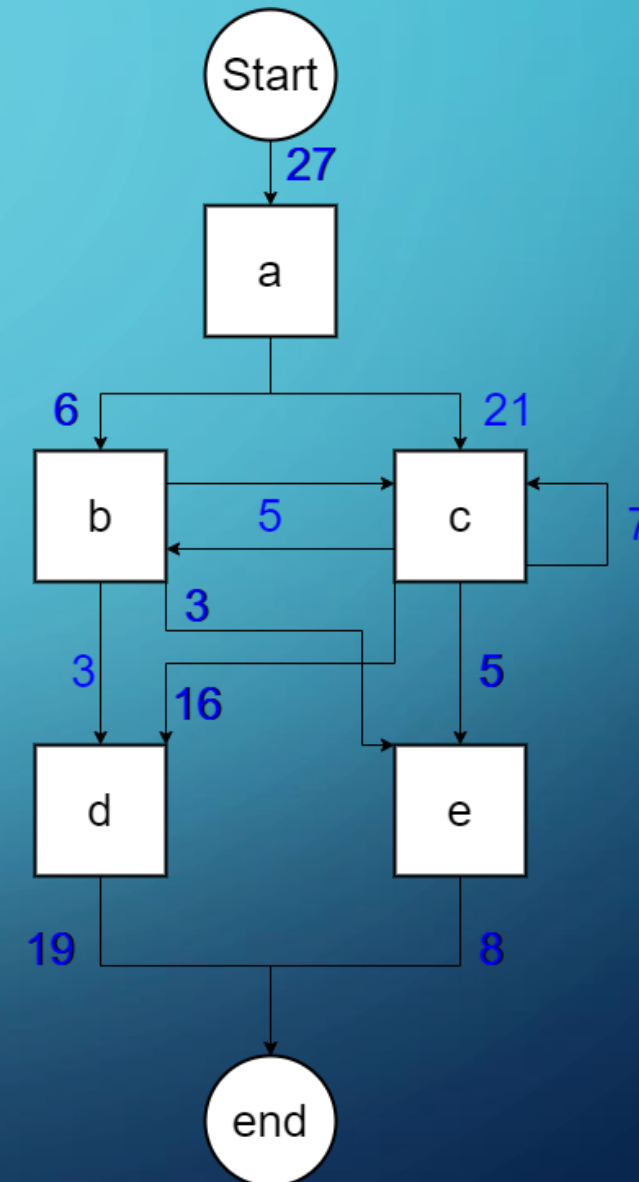


A decorative graphic on the left side of the slide, consisting of a network of white lines and small circles on a blue gradient background, resembling a circuit board or a neural network structure.

# 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 ABHÄNGIGKEITSMAB

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

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

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

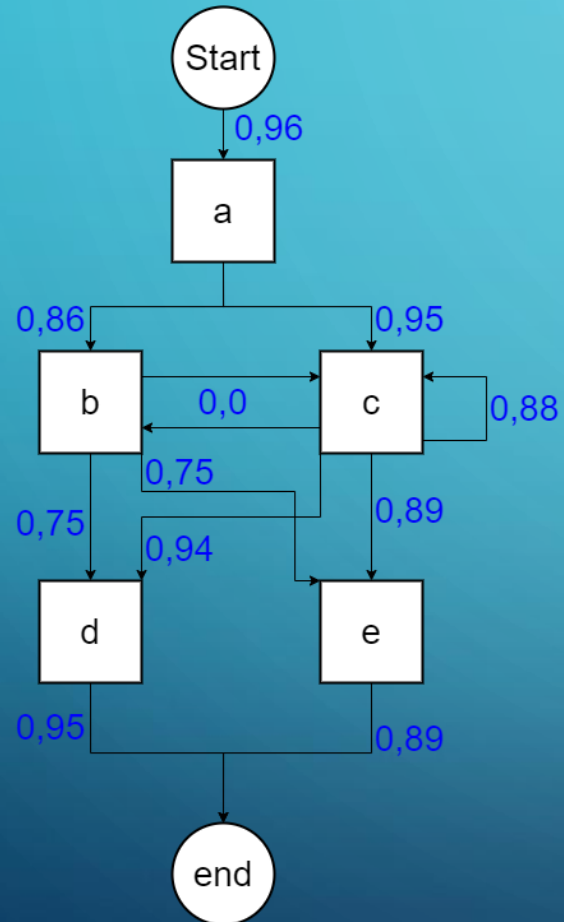
Relation	Häufigkeit	Abhängigkeit
(-, a)	27	0,96
(a, b)	6	0,86
(a, c)	21	0,95
(b, c)	5	0,0
(b, d)	3	0,75
(b, e)	3	0,75
(c, b)	5	0,0
(c, c)	7	0,88
(c, d)	16	0,94
(c, e)	5	0,89
(d, -)	19	0,95
(e, -)	8	0,89

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

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

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

# ABHÄNGIGKEITSGRAPH



Filter: Nur alles größer  
0,9 ist erlaubt

