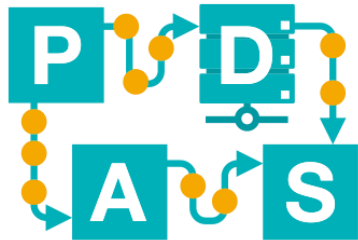


Conformance Checking Footprint & Token-Based Replay

BPI-I 8

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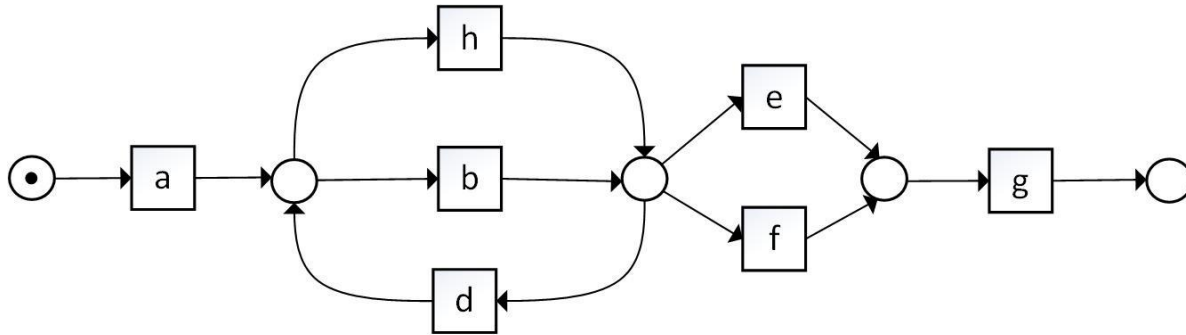


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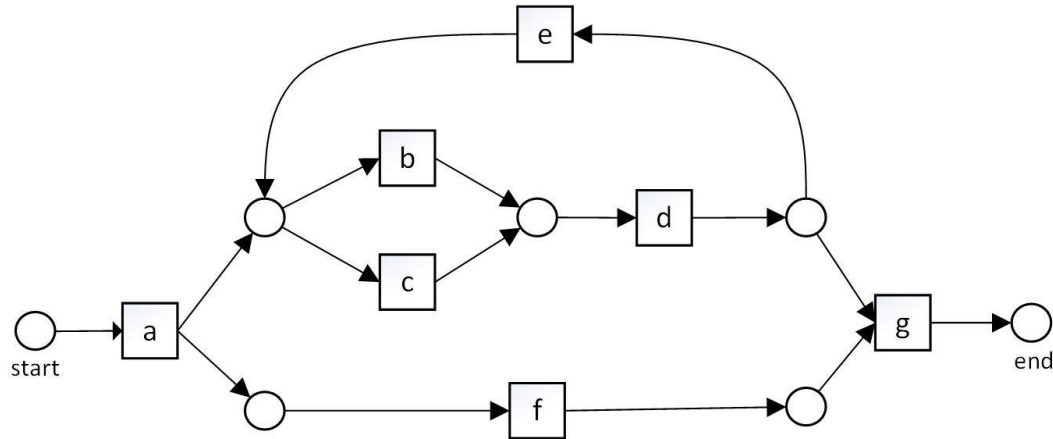
Exercise 1

- Compute the footprint-based conformance for the event log L and the presented model.
- $L = [\langle a, b, f, e, g \rangle^{45}, \langle a, b, d, b, e, f, g \rangle^5, \langle a, h, e, f, g \rangle^{25}, \langle a, h, f, e, g \rangle^{25}]$



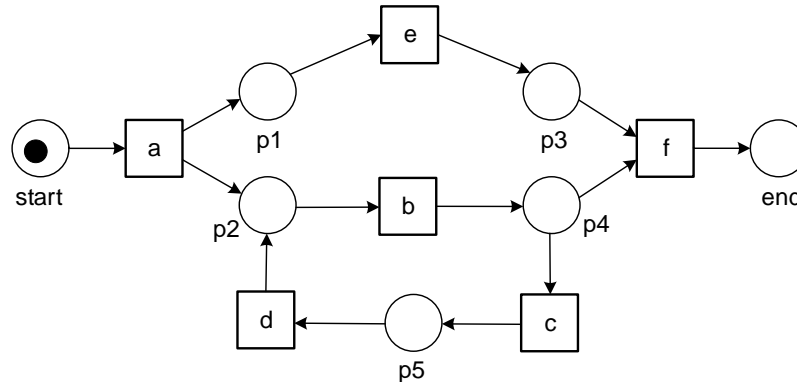
Exercise 2

- Compute the token-based replay fitness for the event log L and the presented model.
- $L = [\langle a, b, d, f, g \rangle^8, \langle a, c, d, e, b, f, g \rangle^4, \langle a, b, c, d, f, g \rangle^5, \langle a, b, f, g \rangle^1, \langle b, d, f, g \rangle^2]$



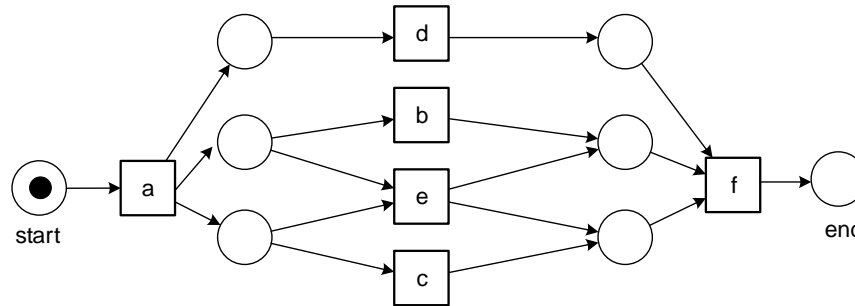
Exercise 3

- Compute the footprint and token-based replay fitness for the event log L and the presented model.
 - $L = [\langle a, b, e, f \rangle^2, \langle a, c, d, f \rangle^3]$



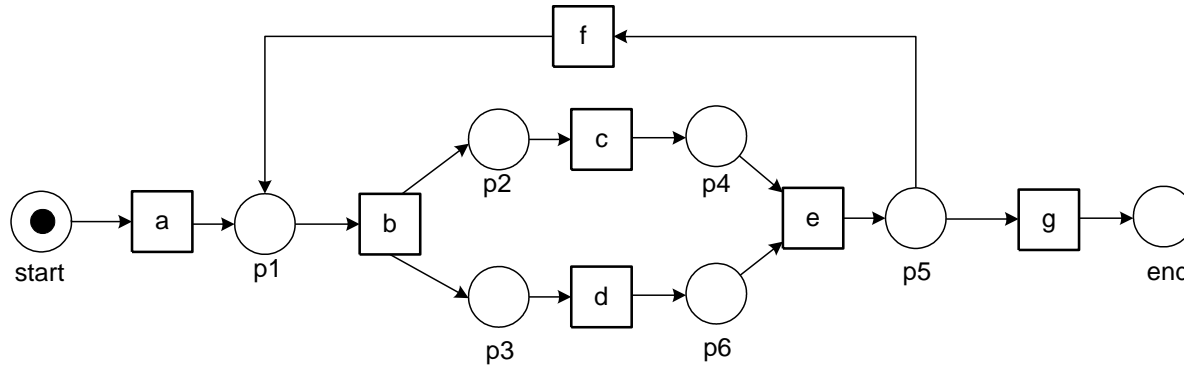
Exercise 4

- Compute the footprint and token-based replay fitness for the event log L and the presented model.
- $L = [\langle a, c, d, f \rangle, \langle a, c, b, d, f \rangle^2, \langle a, b, c, f \rangle, \langle a, e, f \rangle^2]$



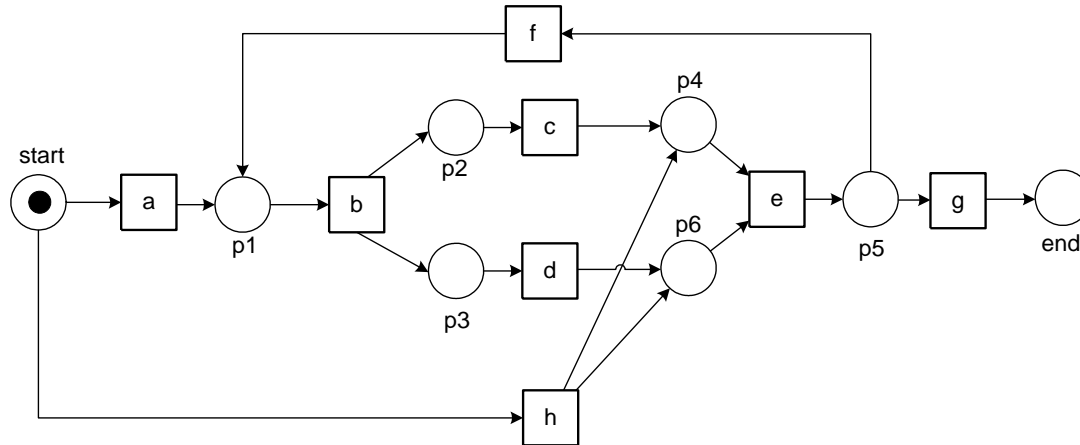
Exercise 5

- Compute the footprint and token-based replay fitness for the event log L and the presented model.
- $L = [\langle a, b, c, d, e, f, b, d, c, g \rangle, \langle a, b, d, c, e, g \rangle, \langle a, b, c, d, e, f, c, d, e, f, b, d, e, g \rangle]$



Exercise 6

- Compute the footprint and token-based replay fitness for the event log L and the presented model.
- $L = [\langle a, b, c, e, f, b, d, c, e, g \rangle, \langle a, b, e, g \rangle, \langle h, e, g \rangle]$



Exercise 7

- Design a sound workflow net using **all** the activities $\{a, b, c, d\}$ and **only** those activities such that it can replay the following trace but the fitness score using footprint table is below 0.7.
 - $\langle a, b, c, d \rangle$
 - What will be the token replay fitness, higher or less than footprint? Why?