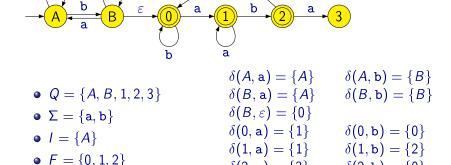
Definice

(Zobecněný) nedeterministický konečný automat je uspořádaná pětice $\mathcal{A} = (Q, \Sigma, \delta, I, F)$, kde

- Q je konečná neprázdná množina stavů
- Σ je konečná neprázdná množina zvaná vstupní abeceda
- $\delta: Q \times (\Sigma \cup \{\varepsilon\}) \to 2^Q$ je (nedeterministická) přechodová funkce
- I ⊆ Q je neprázdná množina počátečních stavů
- ullet $F\subseteq Q$ je množina přijímajících (koncových) stavů

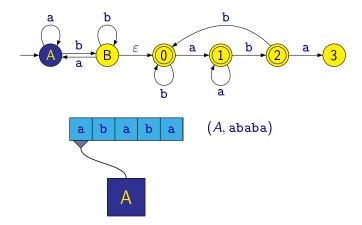


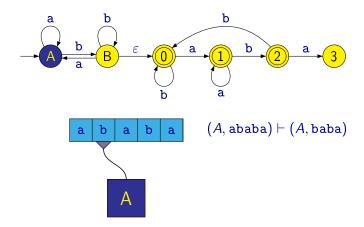
 $\delta(2, a) = \{3\}$

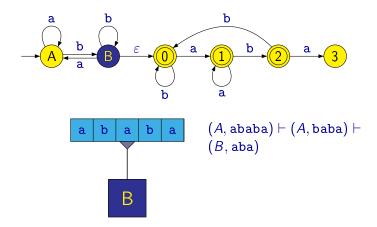
 $\delta(3, \mathbf{a}) = \emptyset$

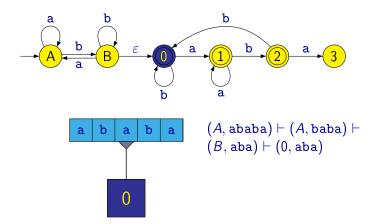
 $\delta(2, b) = \{0\}$

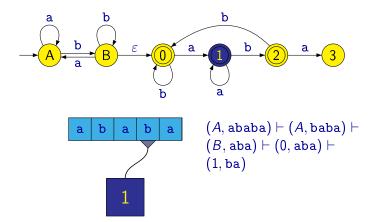
 $\delta(3,b) = \emptyset$

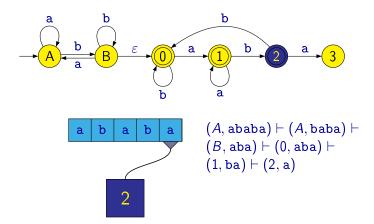


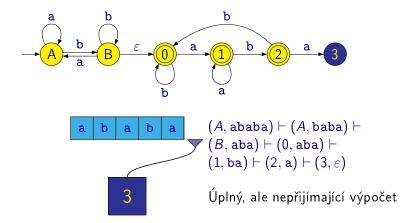


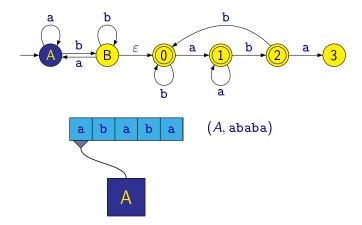


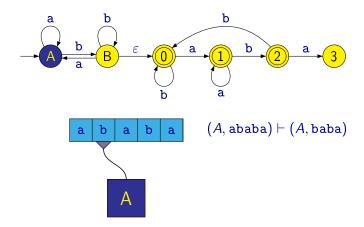


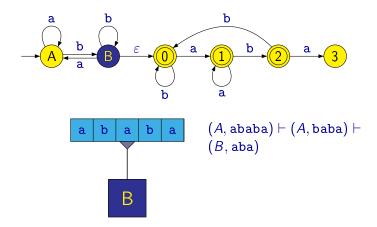


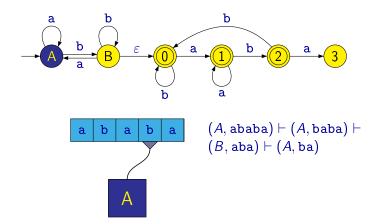


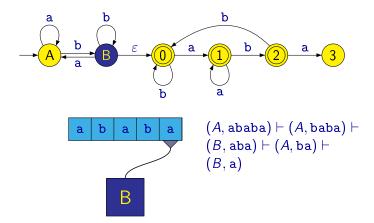


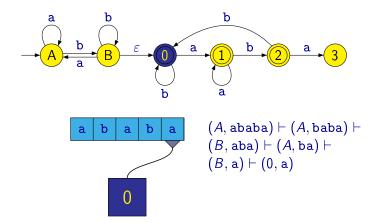


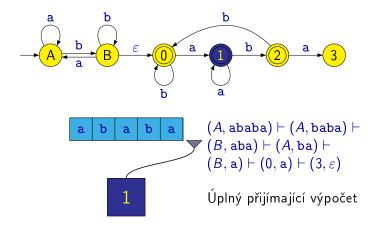


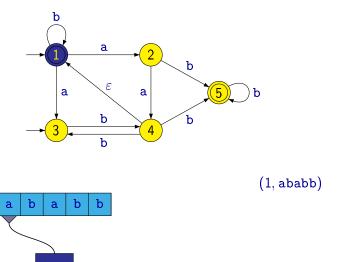


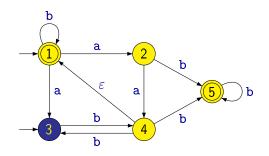


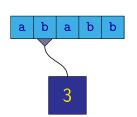




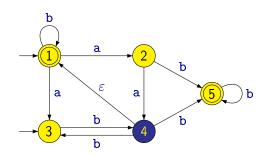


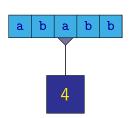




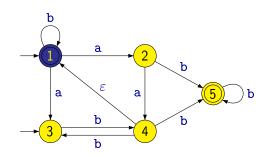


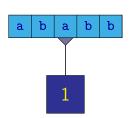
(1, ababb) $\vdash (3, babb)$



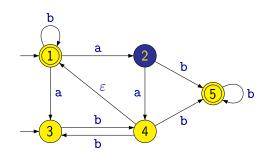


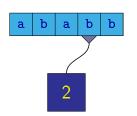
(1, ababb) $\vdash (3, babb)$ $\vdash (4, abb)$



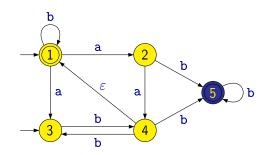


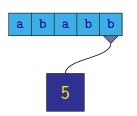
(1, ababb) ⊢ (3, babb) ⊢ (4, abb) ⊢ (1, abb)



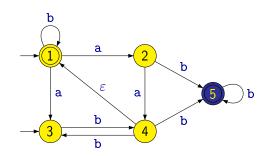


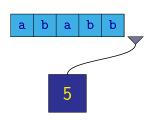
(1, ababb) ⊢ (3, babb) ⊢ (4, abb) ⊢ (1, abb) ⊢ (2, bb)





(1, ababb) $\vdash (3, babb)$ $\vdash (4, abb)$ $\vdash (1, abb)$ $\vdash (2, bb)$ $\vdash (5, b)$





(1, ababb) $\vdash (3, babb)$ $\vdash (4, abb)$ $\vdash (1, abb)$ $\vdash (2, bb)$ $\vdash (5, b)$ $\vdash (5, \varepsilon)$