

# Oblig 2 – INF 1800 – løsning

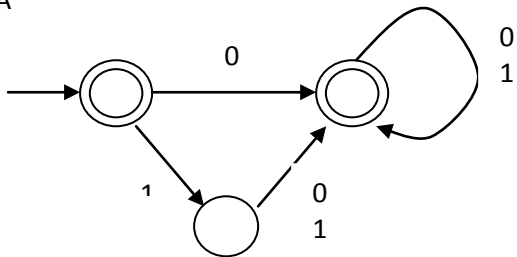
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## 1a

Regulært uttrykk

$$\Lambda + (0+1)^*(0+11)(0+1)^*$$

DFA

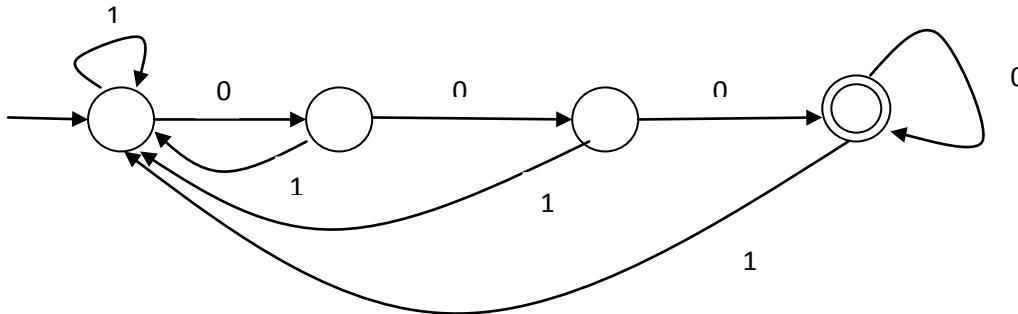


## 1b

Regulært uttrykk

$$(0+1)^*000$$

DFA

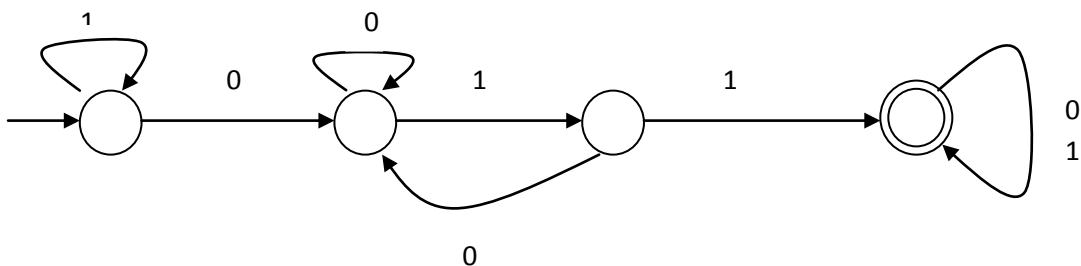


## 1c

Regulært uttrykk

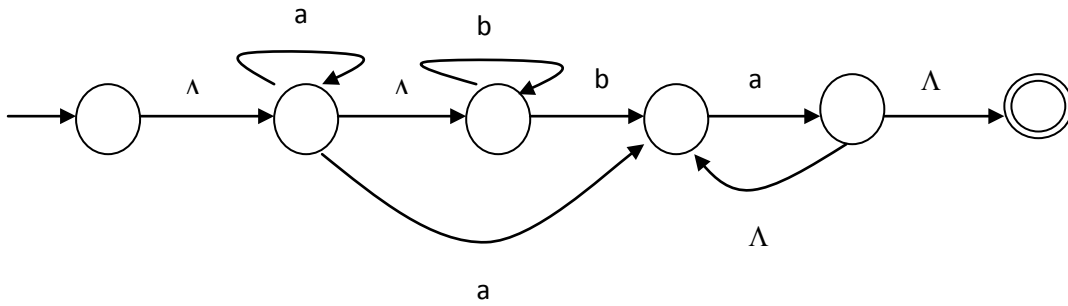
$$(0+1)^*011(0+1)^*$$

DFA

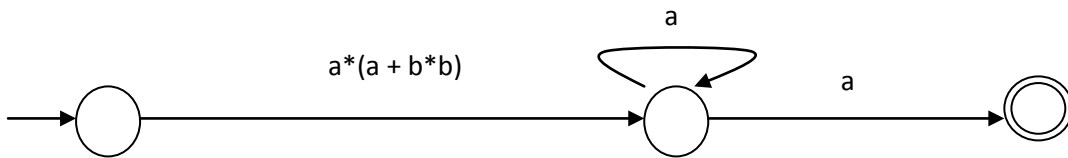
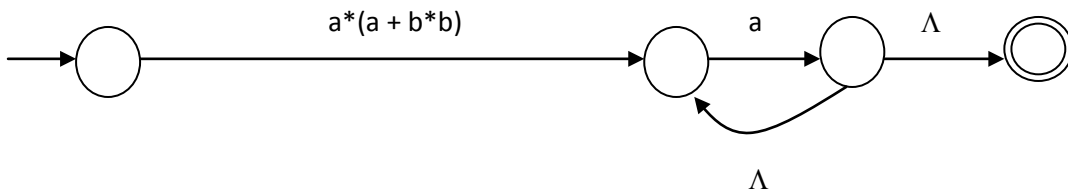
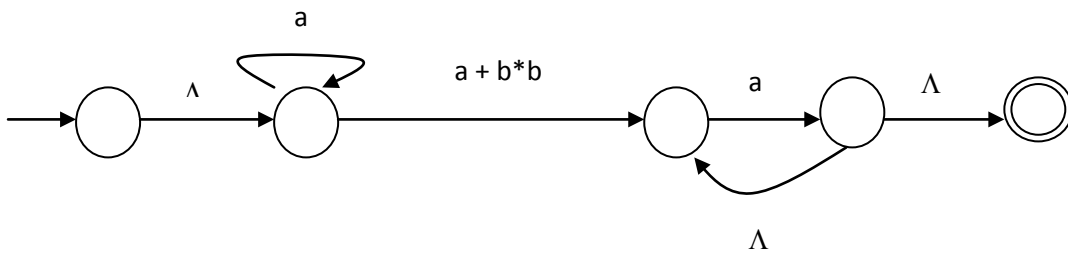




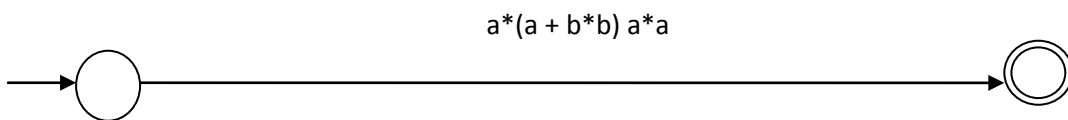
3



Det er lurt å ta vekk tilstander som har bare en pil inn og en pil ut.



Her har vi tatt vekk en tilstand med en pil inn og to piler ut.



Det søkte regulære uttrykket er  $a^*(a + b^*b) a^*a$