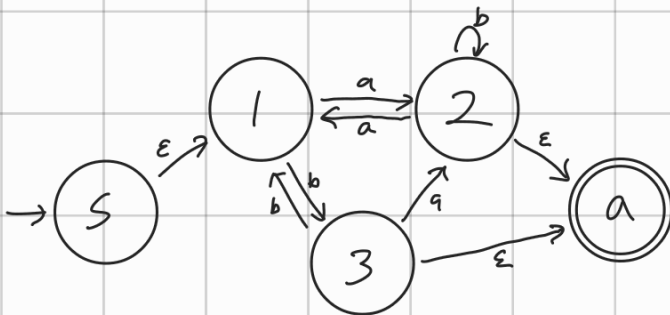


A : regular (language) $\stackrel{\text{def}}{=} \exists \text{ DFA } M \text{ such that } L(M) \subseteq A$

$\Leftrightarrow \exists \text{ NFA } N \text{ such that } L(N) = L(M) = A$

$\Leftrightarrow \exists \text{ Regular Expression } R \text{ such that } L(R) = A$

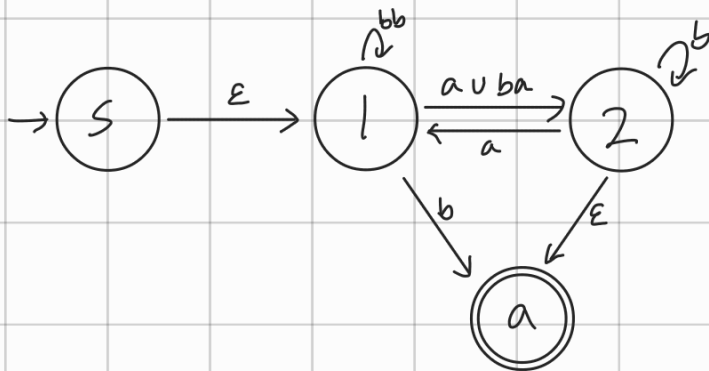
A. 강의자료 p8의 DFA를 Regular expression으로 바꾸는 알고리즘에서 State를 제거한 순서는 1-2-3이다. 3-2-1의 순서로 State를 제거하여 Regular expression을 구하시오.



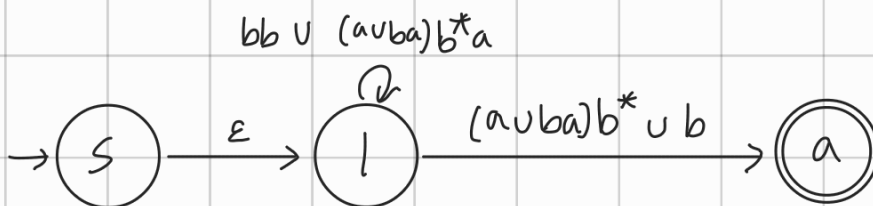
③ 제거

1-3-1
1-3-2
1-3-a
⋮
2-3-2
2-3-a

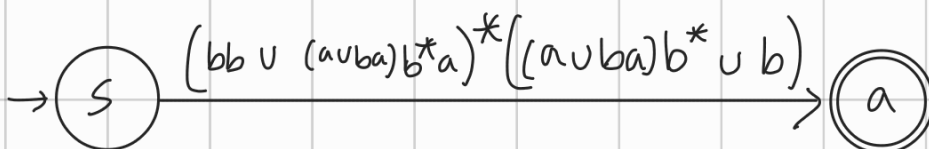
모든 경우 확인해보기



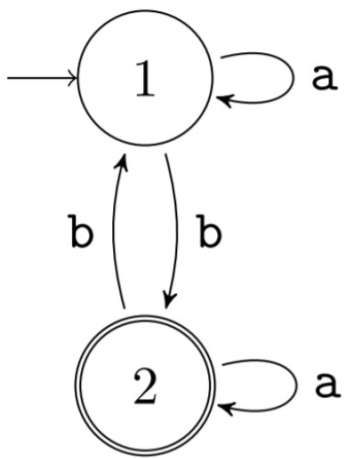
② 제거



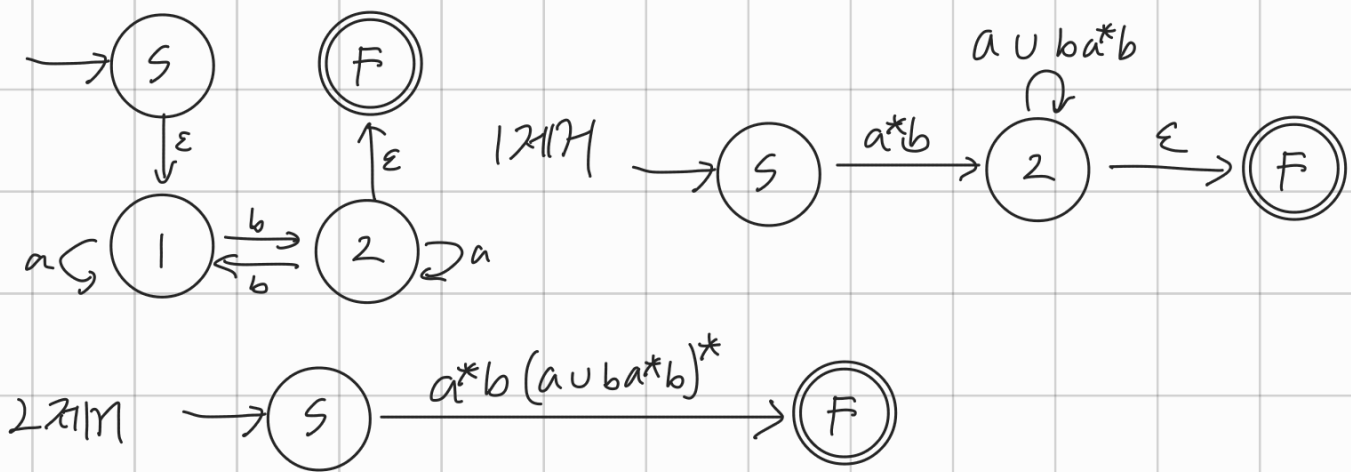
① 제거



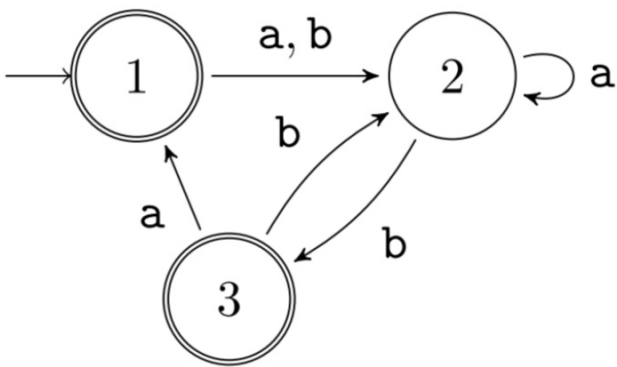
B. Exercise(p.86): 다음 DFA와 동등한 Regular expression을 구하시오.



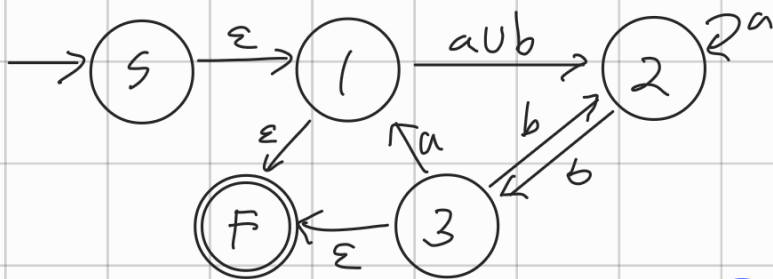
(a) 1.21(a) State 제거 순서: 1-2



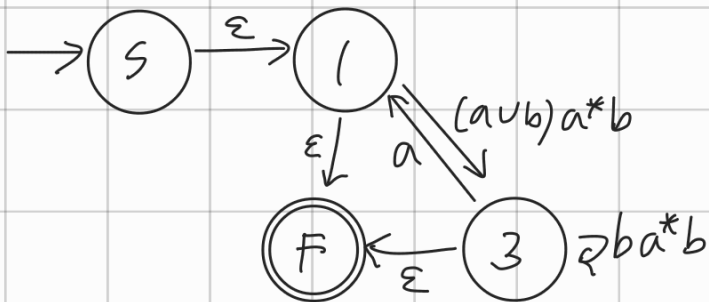
B. Exercise(p.86): 다음 DFA와 동등한 Regular expression을 구하시오.



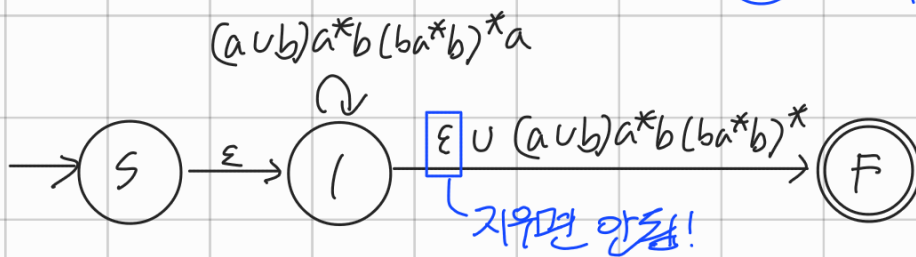
(b) 1.21(b) State 제거 순서: 2-3-1



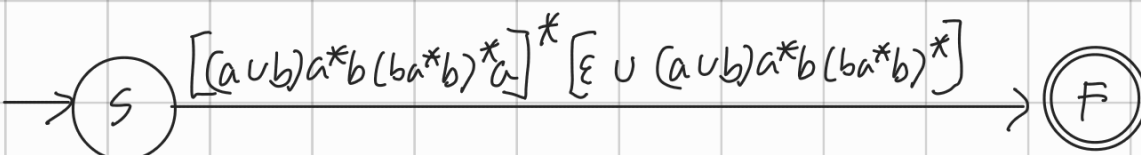
② 제거



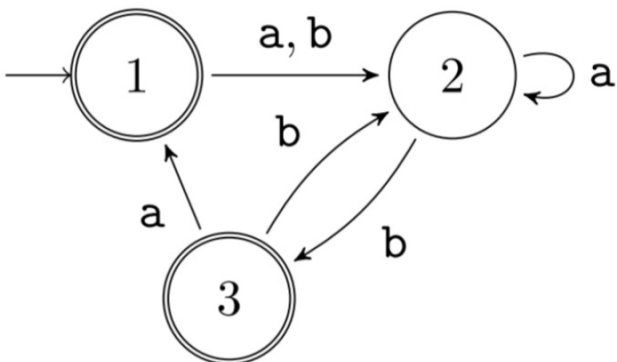
③ 제거



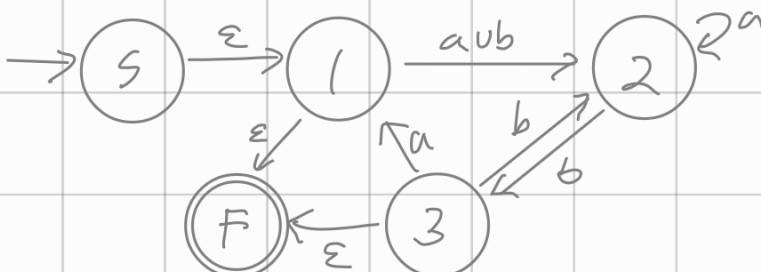
① 제거



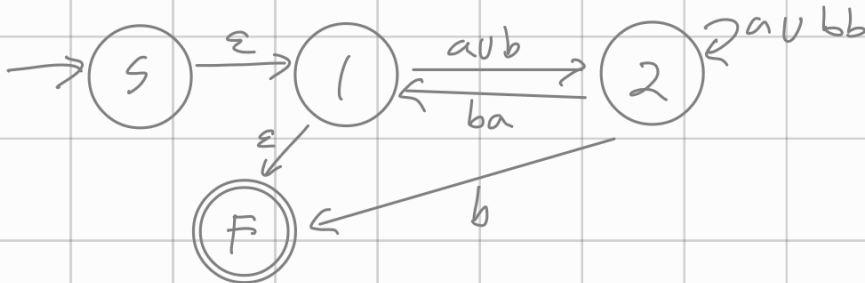
B. Exercise(p.86): 다음 DFA와 동등한 Regular expression을 구하시오.



(c) 1.21(b) State 제거 순서: 3-2-1

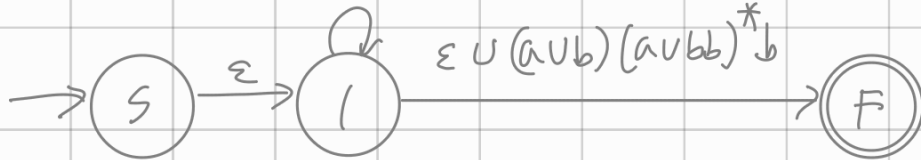


3 제거



2 제거

$(a \cup b)(a \cup b)^*ba$



1 제거

