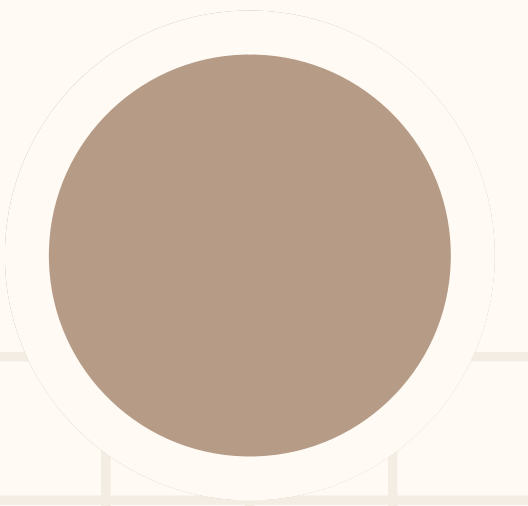
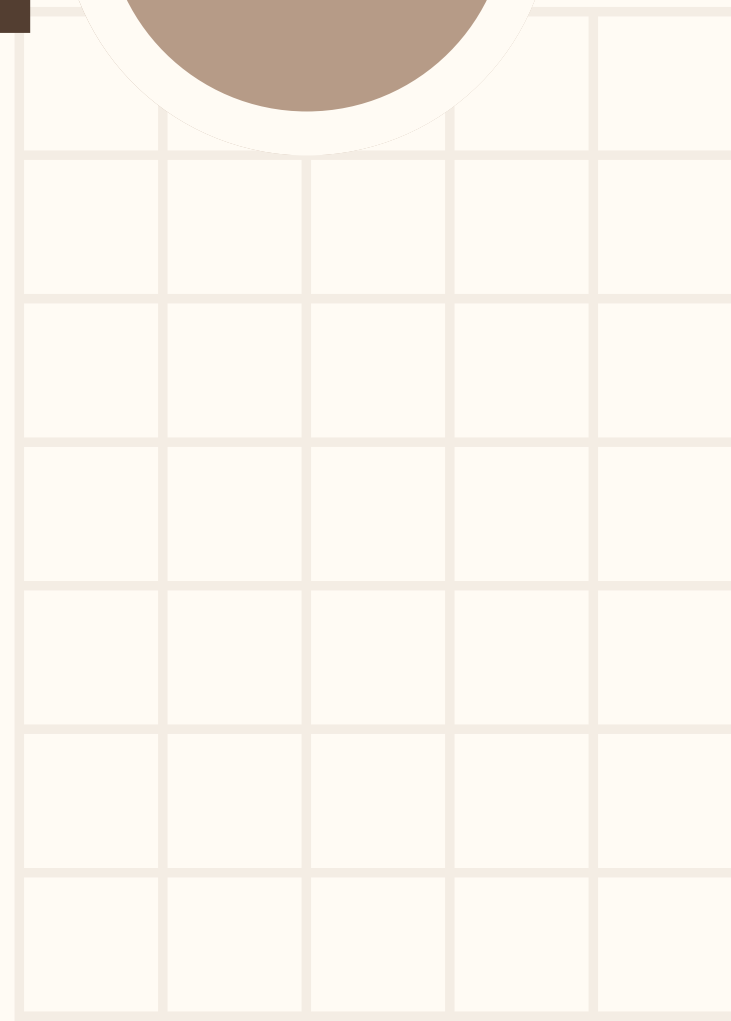


DFA Minimization



By Natanya Modi (21BAI1405)



Definition

DFA minimization stands for converting a given DFA to its equivalent DFA with minimum number of states.

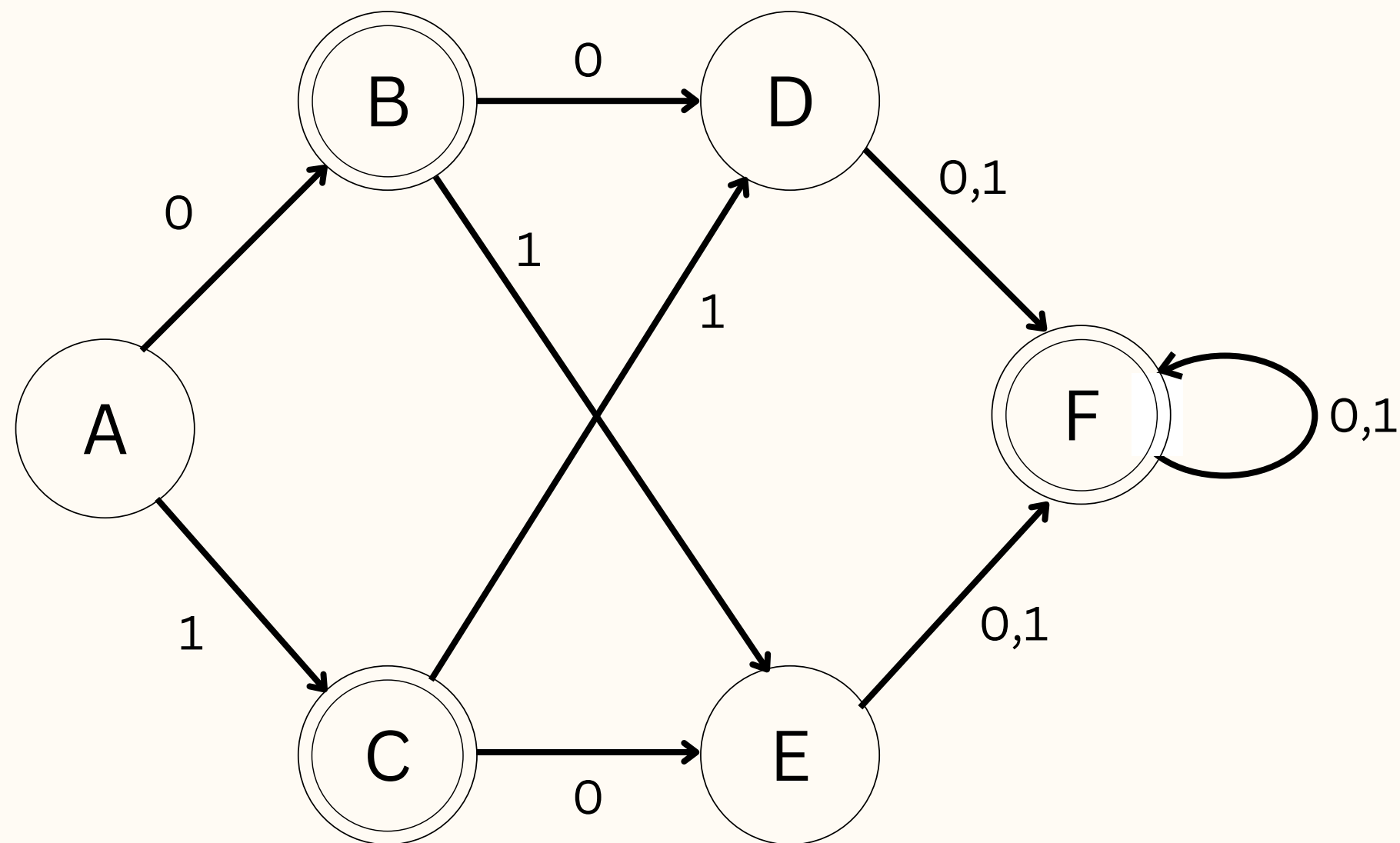
Table Filling Algorithm

RULES

- Eliminate all cells like (A,A), (B,B), (C,C), (D,D)
- Eliminate all duplicate cells
- Cancel the state where one state is final and the other is not a final state



Example



States	0	1
A	BC	BC
BC	D ϵ	D ϵ
D ϵ	F	F
F	F	F





A
*B
*C
D
E
*F

A *B *C D E *F



A
*B
*C
D
E
*F

A *B *C D E *F