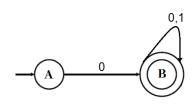


CONVERSION OF NFA TO DFA

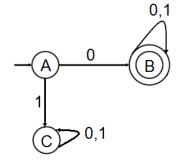


CONVERSION OF NFA TO DFA

- Every DFA is an NFA, but not vice versa
- NFA ≅ DFA
 - L = set of all strings over {0,1} that starts with 0



	0	1
→ A	В	Φ
* B	В	В

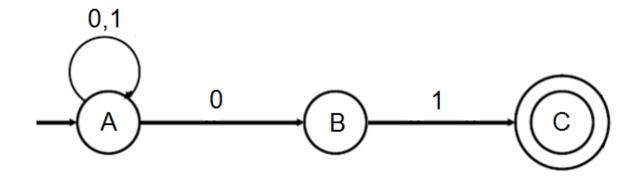


	0	1
\rightarrow A	В	С
* B	В	В
С	С	С



EXAMPLE 1

Convert the given NFA into DFA





EXAMPLE 2

• Find the equivalent DFA for the NFA given by $M = [\{A,B,C\}, (a,b), \delta, A, \{C\}]$ where δ is given by:

	а	b
\rightarrow A	A,B	С
В	Α	В
* C	-	A,B



EXAMPLE 3

- Design an NFA for a language and convert it to its equivalent DFA
 - L = set of all strings over {0,1} that contains 10