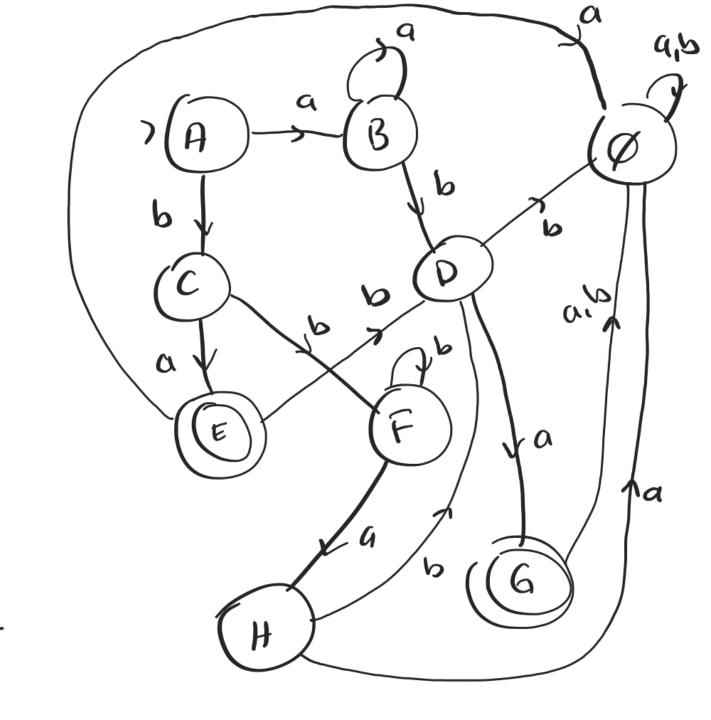
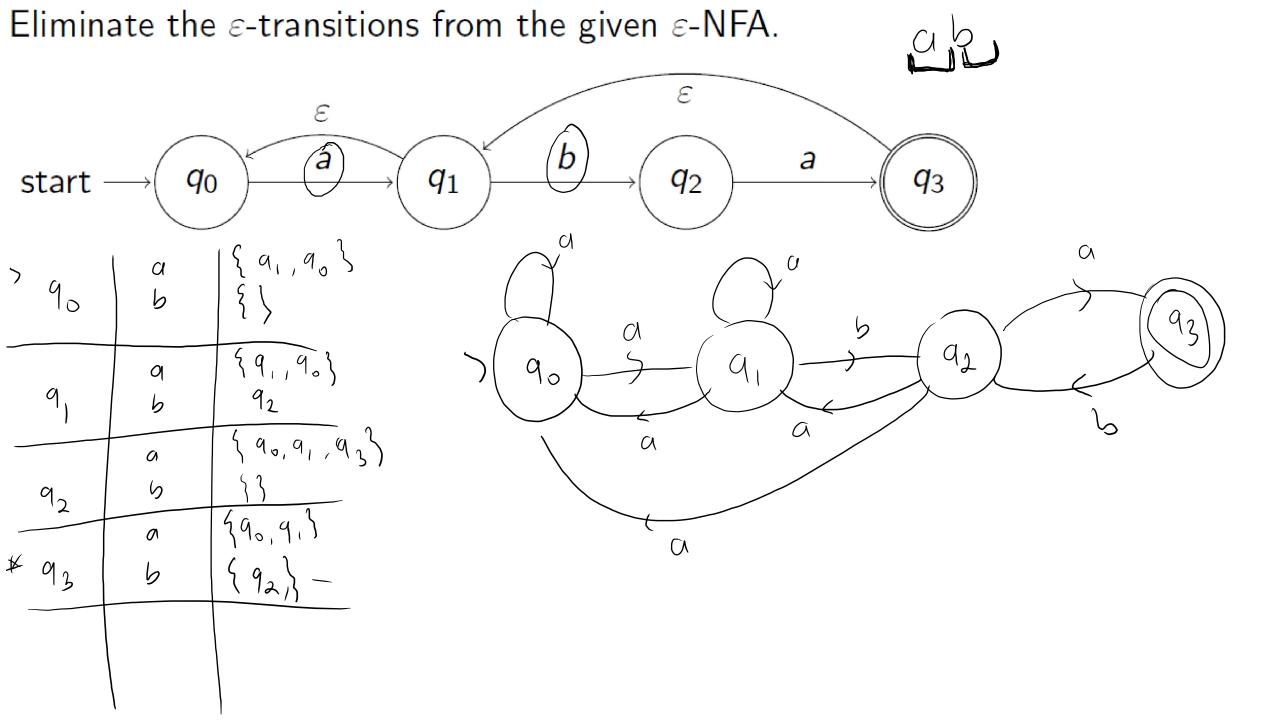
a)Create an NFA no more than 5 states that accepts the language $L = \{abab^n \mid n \ge 0\} \cup \{aba^n \mid n \ge 0\}.$ b) Create a DFA accepting L^R

For the next part, you can use 2 other methods to confirm the answer.

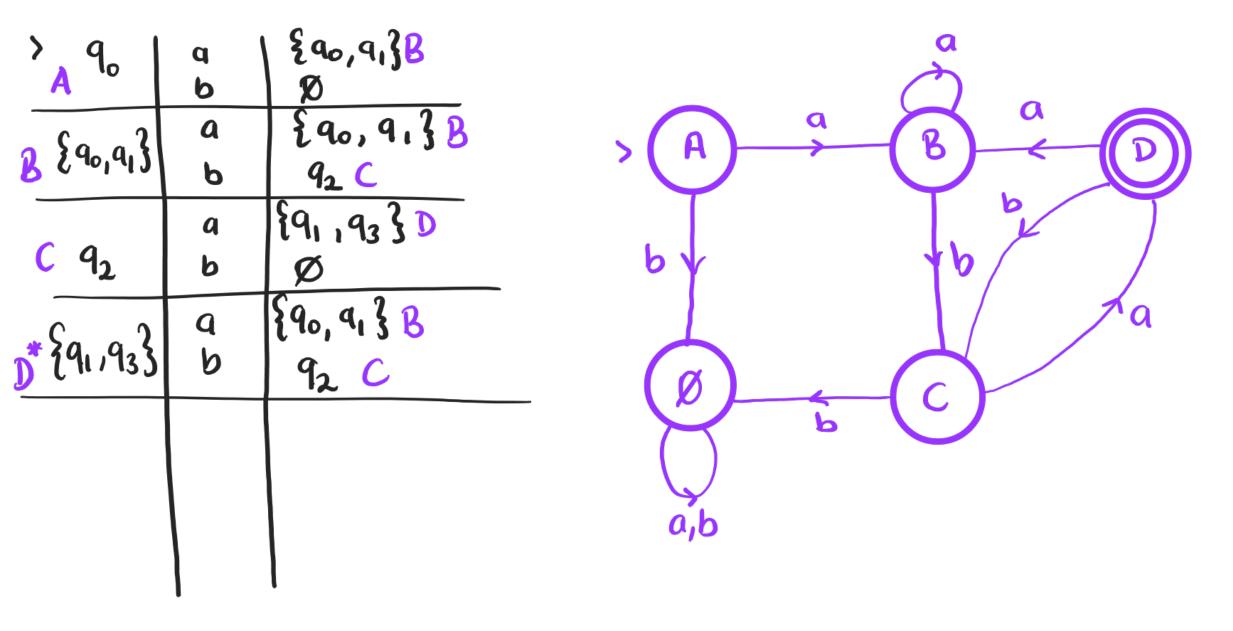
Cose with multiple înitial states:

> { q, q, q, q, }	a b	\{92,93}B \{91,94}C
B {q ₂ ,q ₃ }	q b	{ 92, 93 } B
c { 9, , 94 }	а 6	{ 90, 92 } E 94 F
D 9,	a b	90 G Ø
E * { 90,92}	a b	Ø q, D
F a4	a P	92 H 94 F
6 * 9 ₀	a b	Ø
H 92	9	Ø 9,D



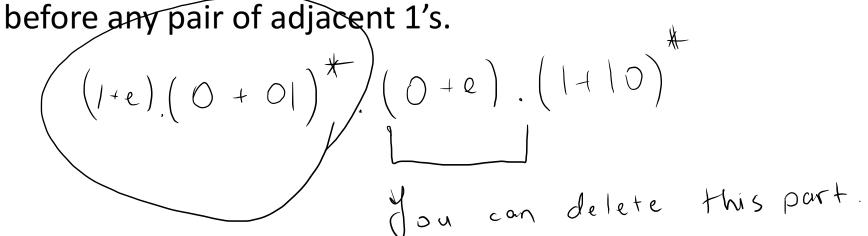


Create an equivalent DFA for the NFA you found in the previous problem.



Write regular expressions for the following languages.

a) The set of all strings of 0's and 1's such that every pair of adjacent 0's appears



Informally describe the languages of the following regular expressions.

a)
$$(1+e)(00*1)*0*$$

The set of strings of Os and Is with no pair of

adjacent 15.