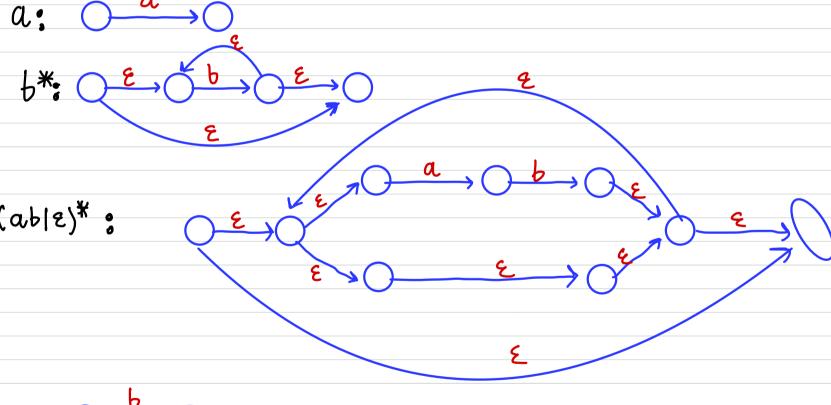
Task:

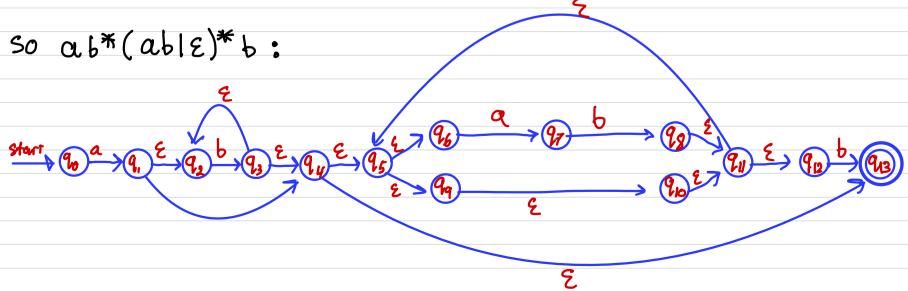
Find:

- a) Three accepted strings
- b) find NFA
- C) NFA-E -> DFA converstion
- a) The Three strings are:
 - 1) ababb
 - 2) aabb
 - 3) ab

b) Thompson Algorithm NFA



b:



C) NFA TO OFA

$$1\{\xi-c|(f_0) = \{f_0\} \text{ State } A$$

$$move[A,a] = \{f_1\}$$

$$move[A,b] = \emptyset$$

$$2) e-c|(f_1) = \{f_1, f_2, f_3, f_4, f_6, f_6, f_6, f_6, f_{11}, f_{12}\} \text{ State } B$$

$$move[B,b] = \{f_2, f_{13}\}$$

$$3) \xi-c|(f_7) = \{f_7\} \text{ State } c$$

$$\{f_1\} - c|(f_2, f_{13}) = \{f_1, f_2, f_2, f_1, f_{10}, f_{11}, f_{12}, f_2, f_{13}\} \text{ State } D *$$

$$move[C,a] = \emptyset \qquad | move[D,a] = \{f_2, f_{13}\} \text{ C}$$

$$move[C,b] = \{f_3\} \text{ move}[D,f_1] = \{f_2, f_{13}\} \text{ D}$$

$$5) \xi-c|(f_8) = \{f_1, f_2, f_3, f_4, f_4, f_{10}, f_{11}, f_{12}\} \text{ State } E$$

$$move[E,a] = \{f_1, f_2, f_3\} \text{ F}$$

$$6) \xi-c|(f_1, f_2) = \{f_1, f_3\} \text{ State } F *$$

$$move[F,a] = \emptyset$$

$$move[F,b] = \emptyset$$

*DFA Graph

Stari A a B a C b E b F

* Transition Table

		a	Ь
\longrightarrow	A	B	Ø
	B	C	D
	C	Ø	E
*	0	C	0
	E	C	F
*	f	0	Ø

A- Start state
D, F- Final States