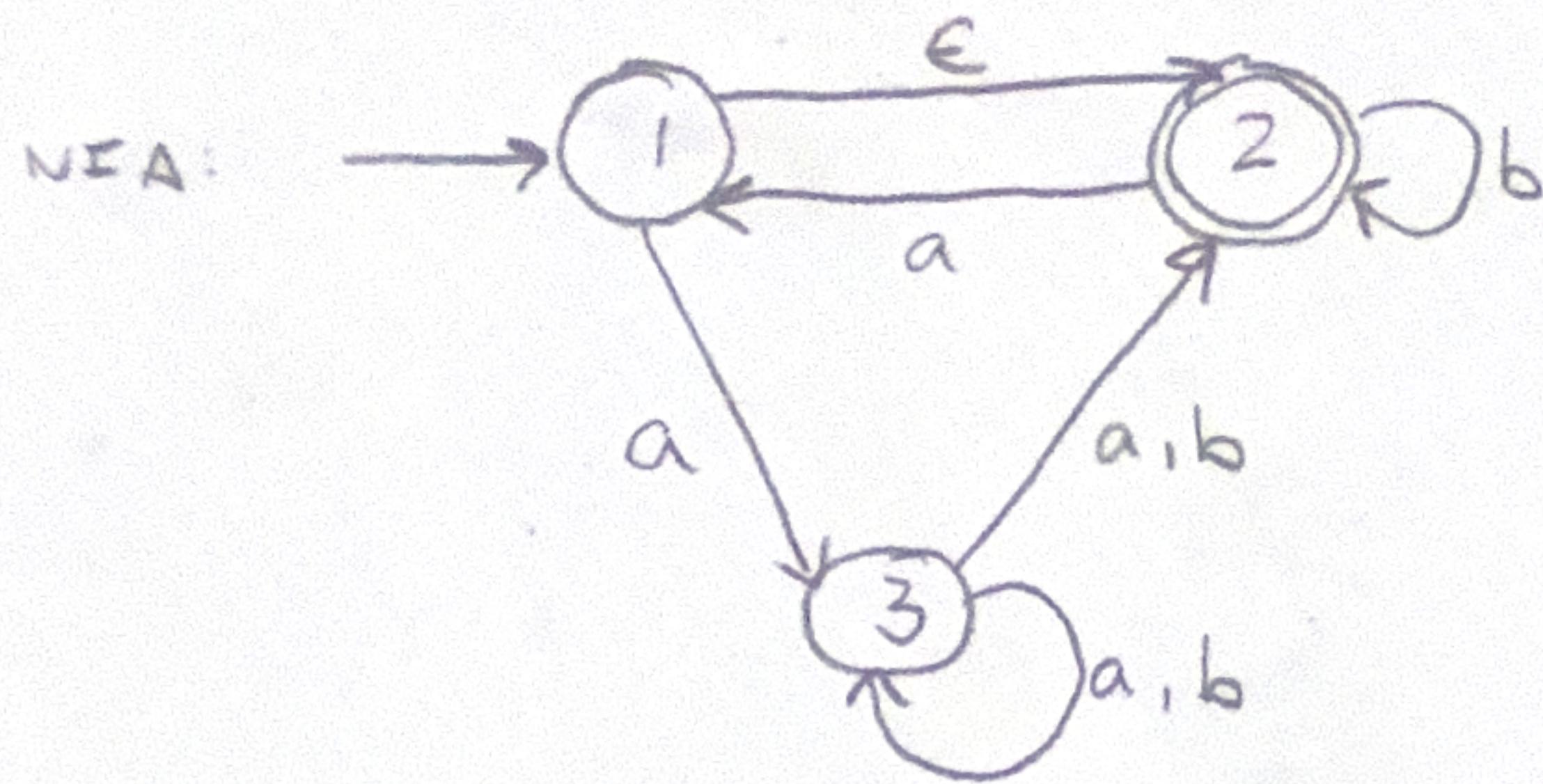


(4)

NFA:

 $S: S \times \Sigma_c \rightarrow \mathcal{P}(S)$ :

	a	b	$\epsilon$
1	$\{\epsilon\}_{33}$	$\emptyset$	$\{\epsilon\}_{23}$
2	$\{\epsilon\}_{13}$	$\{\epsilon\}_{23}$	$\emptyset$
3	$\{\epsilon\}_{2,33}$	$\{\epsilon\}_{2,33}$	$\emptyset$

DFA: 1.  $S' = \mathcal{P}(S) = \{\emptyset, \{\epsilon\}_{13}, \{\epsilon\}_{23}, \{\epsilon\}_{33}, \{\epsilon\}_{1,23}, \{\epsilon\}_{1,33}, \{\epsilon\}_{2,33}, \{\epsilon\}_{1,2,33}\}$ 

2.



3.

