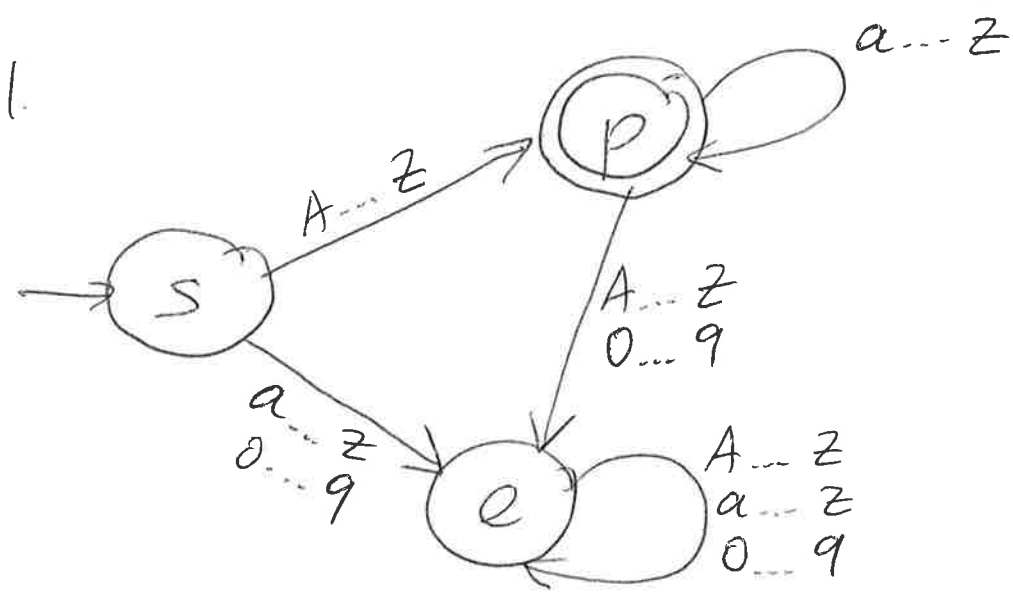


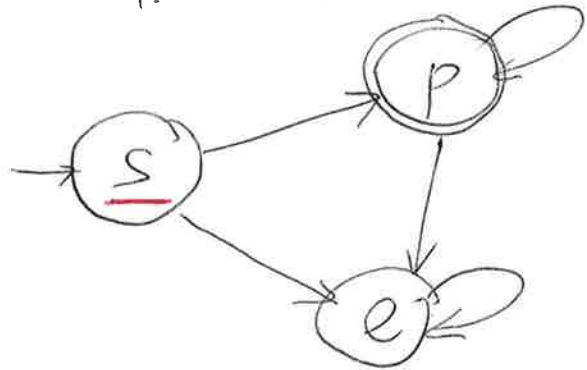
HW1, FALL 2023, p-1

1.1.

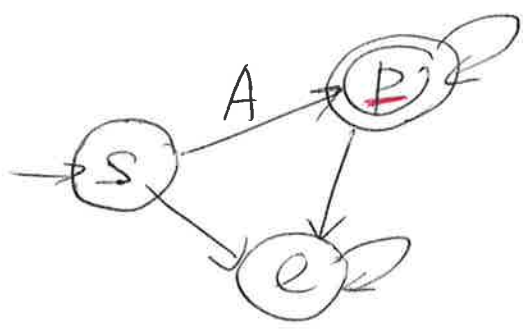


1.2. Word Ale

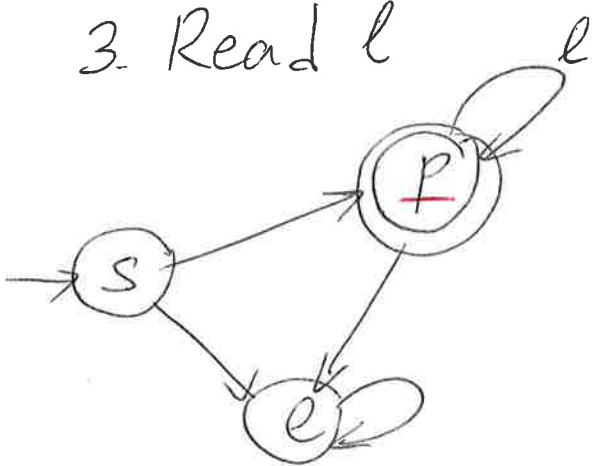
1. Start



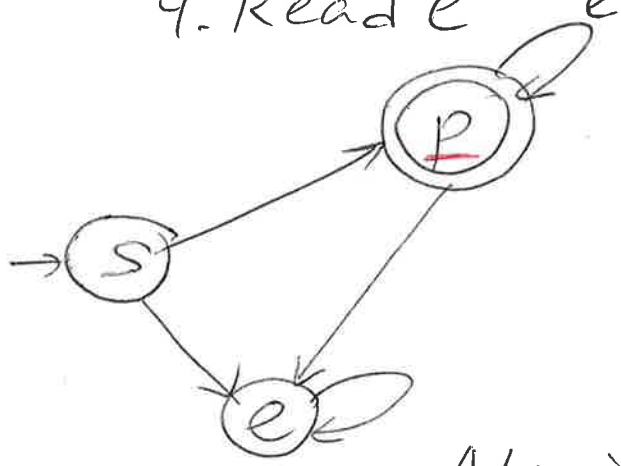
2. Read A



3. Read l



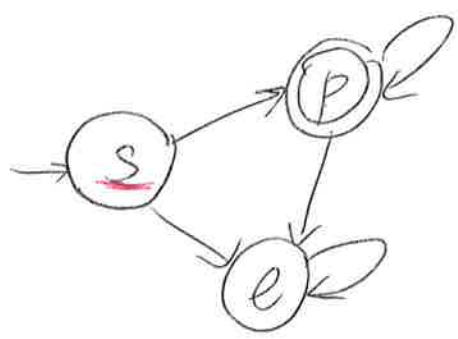
4. Read e



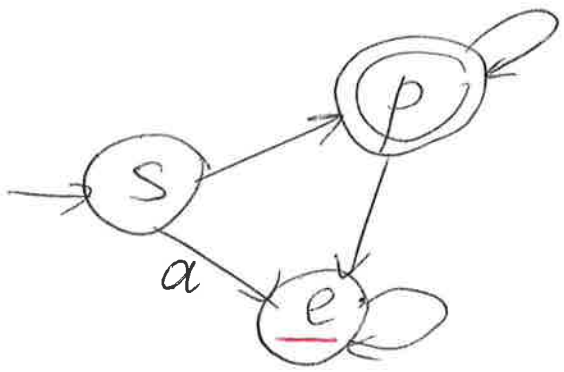
The state is p , it is final, so Ale is accepted

Word alel

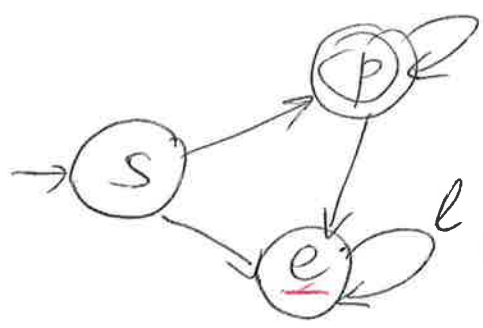
1. Start



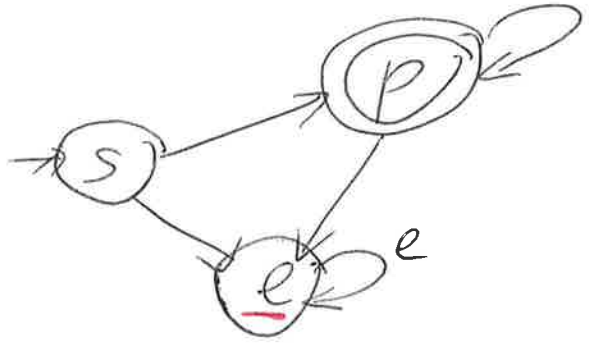
2. Read a



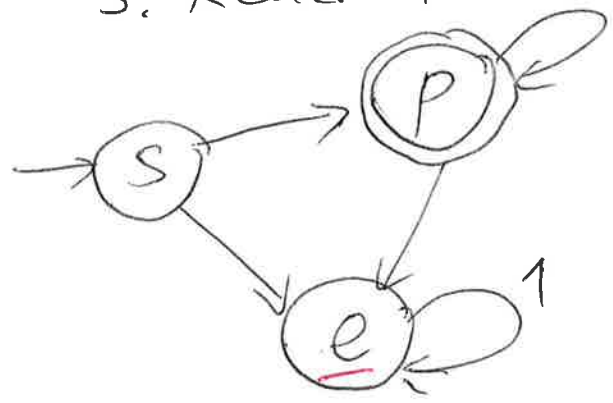
3. Read l



4. Read e



5. Read l



We end up in the state e which is not final, so the word alel is not accepted

HW 1, FALL 2023, p. 3

1.3 $Q = \{s, p, e\}$

$\Sigma = \{0, 1, a, A\}$

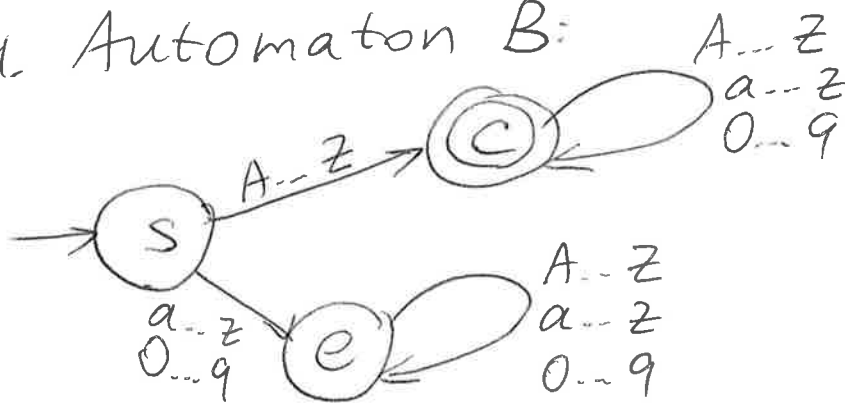
δ :

	s	p	e
0	e	e	e
1	e	e	e
a	e	p	e
A	p	e	e

$q_0 = s$

$F = \{p\}$

1.4 Automaton B:



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