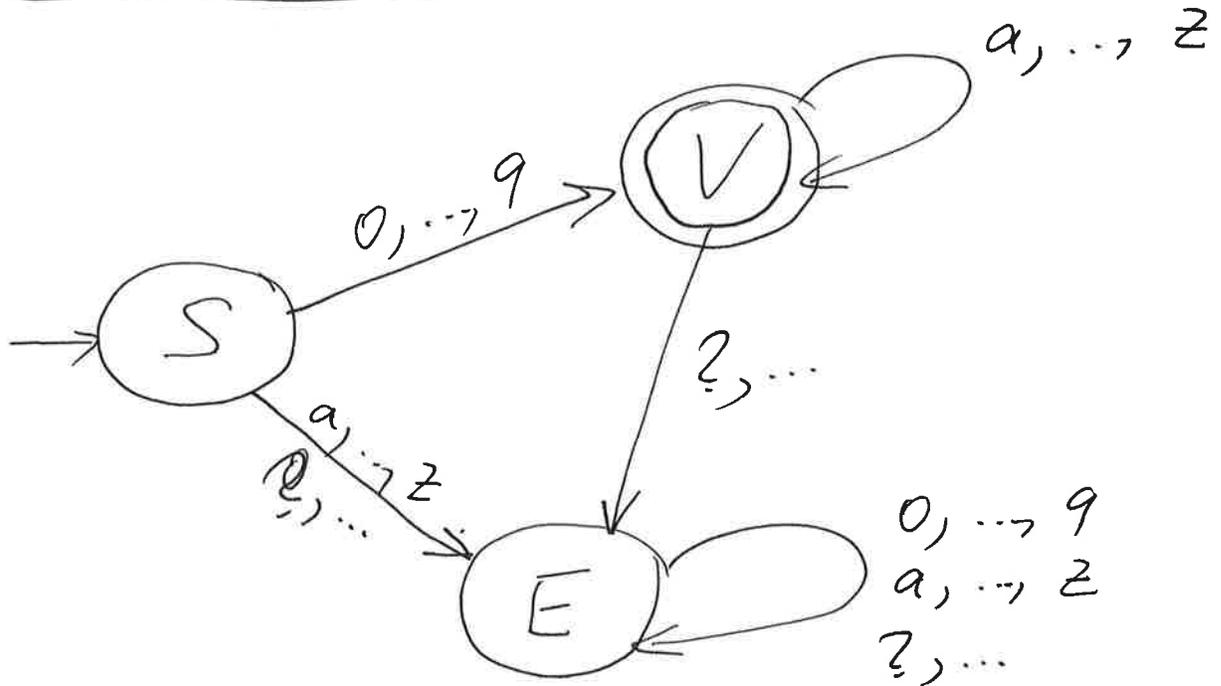


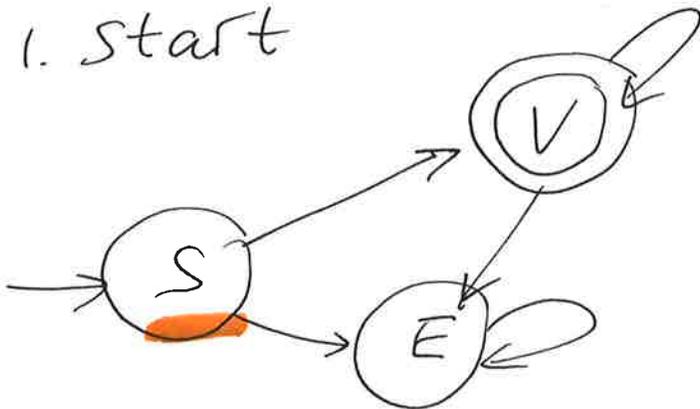
# HW1, FALL 2024, P.1

1.1

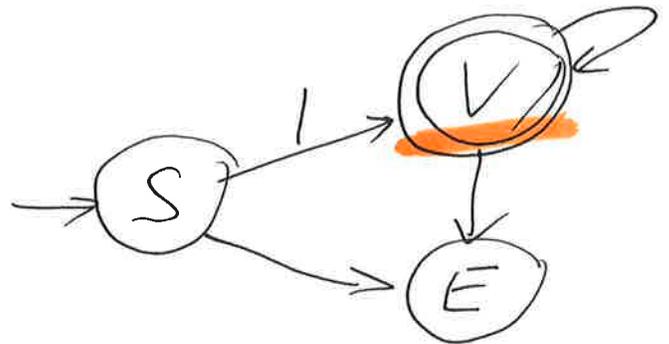


1.2. Word 1a

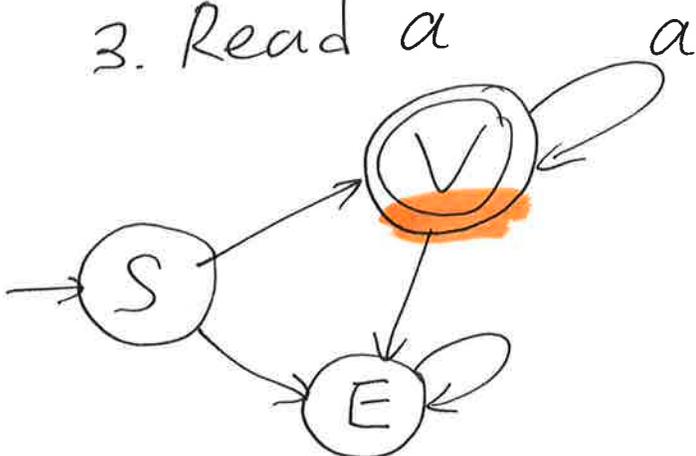
1. Start



2. Read 1



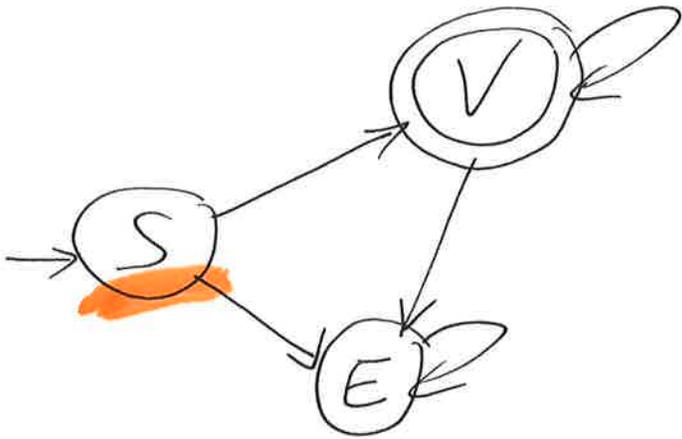
3. Read a



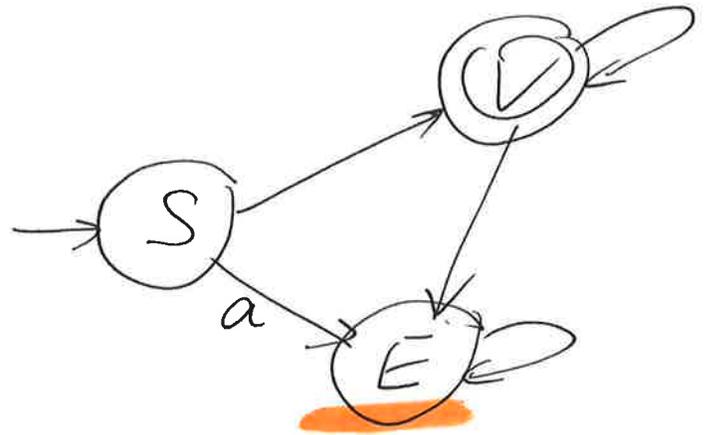
We end up in the final state V, so 1a is accepted

# HW1, FALL 2024, P.2

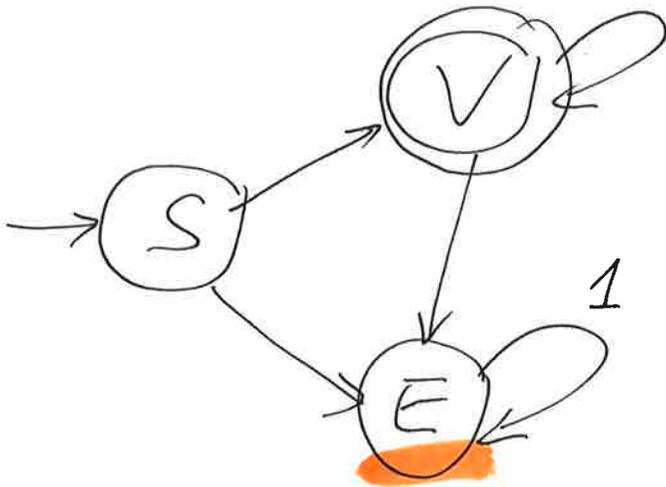
1. Start



2. Read a



3. Read 1



We end up in state E which is not final, so the word a1 is not accepted

# HW 1, FALL 2024, P. 3

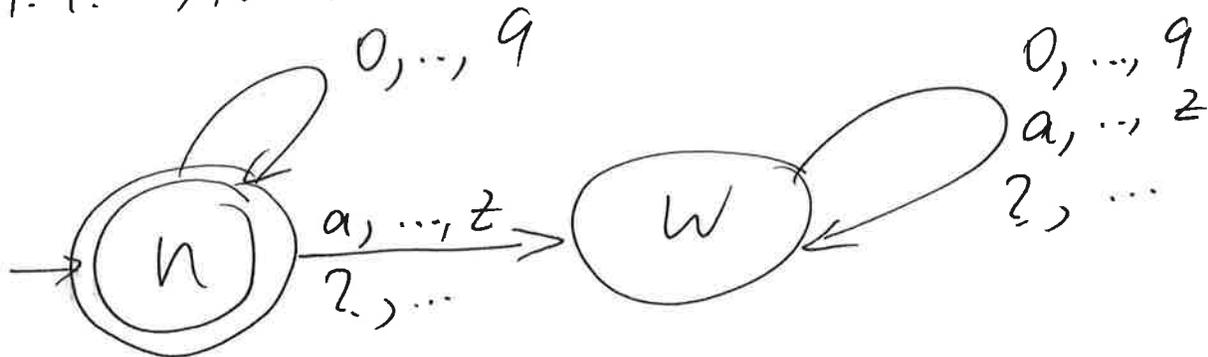
1.3  $Q = \{S, V, E\}$   
 $\Sigma = \{1, a, ?\}$

$\delta:$

	S	V	E
1	V	V	E
a	E	V	E
?	E	E	E

$q_0 = S, F = \{V\}$

1.4. Automaton B:



HW1, FALL 2024, P.4

