NDFA

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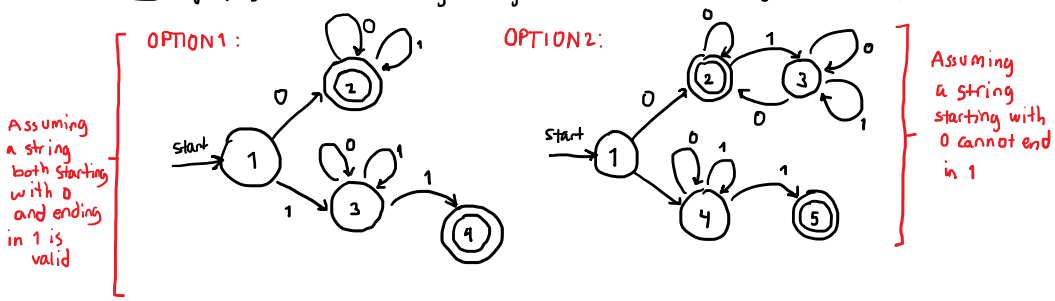
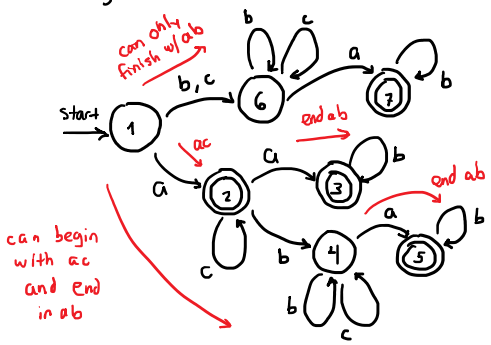
Tuesday, March 1, 2022 7:11 PM

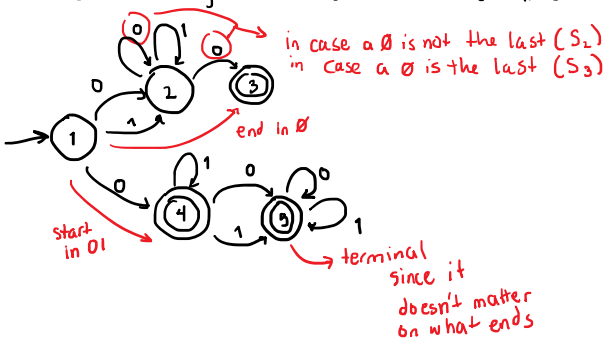
1. Construct a Non Deterministic Finite Automaton for the language in $\Sigma = \{0,1\}$ whose strings begin with "0" or end with "1".



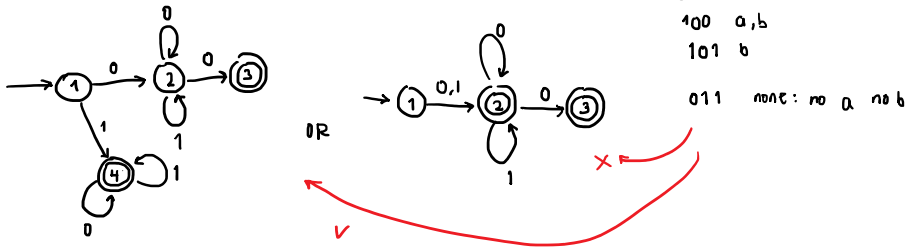
2. Build an NDFA given the next language defined in the alphabet $\Sigma = \{a,b,c\}$. The set of strings that start in the substring "ac" or finish in the substring "ab"



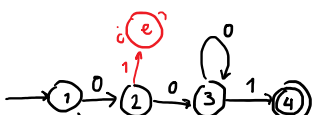
3. Obtain an NDFA given the following language defined in the alphabet $\Sigma = \{0,1\}$ The set of strings that start in "01" or finish in "0"

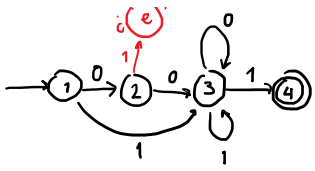


4. Obtain an AFND given the next language defined in the alphabet $\Sigma = \{0,1\}$. The set of strings that do not start in "01" or not end in "1"

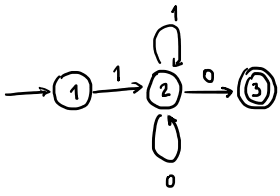


5. Obtain an AFND given the following language defined in the alphabet $\Sigma = \{0,1\}$. The set of strings that do not start in "01" and do not end "0".



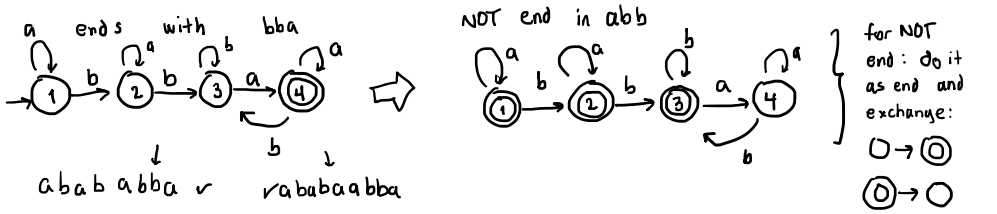


6. Obtain an AFND given the next language defined in the alphabet $\Sigma = \{0,1\}$. The set of strings that do not start in "0" AND not end in "1"



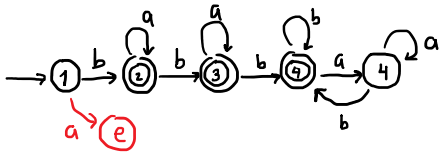
all strings that dont start in ∅ and dont end in 1

7. Obtain an AFND given the language defined in the alphabet $\Sigma = \{a, b\}$. The set of strings that start in "b" and dont end in "bba"

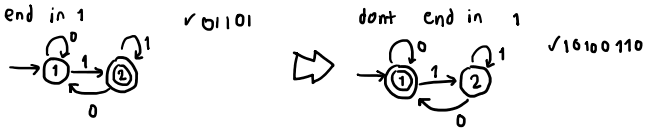


abab abba ✓ ✓ababaabba

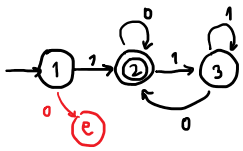
Thus start in b and not end in bba



6. All strings that dont start in 0 or dont end in 1

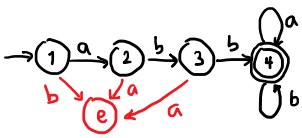


Thus, dont start in 0 or dont end in 1



✓10110
✓10100110
✗011

7. strings that start with abb



✓abb aa bb

baba abb

hdian guy: ends with ab