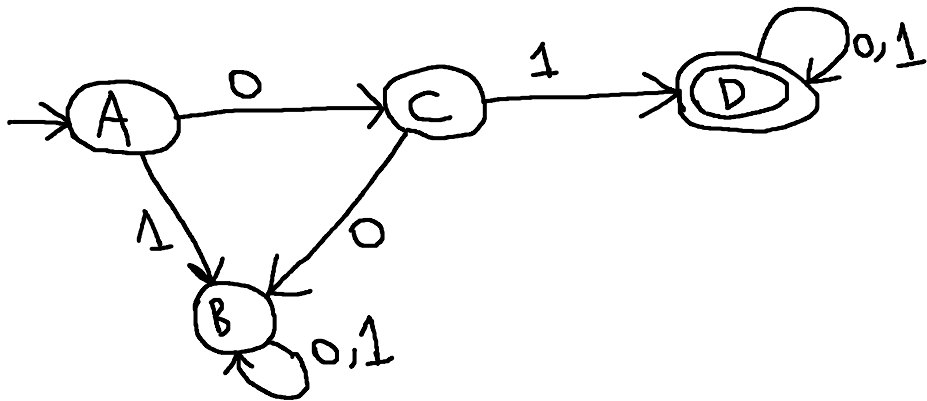
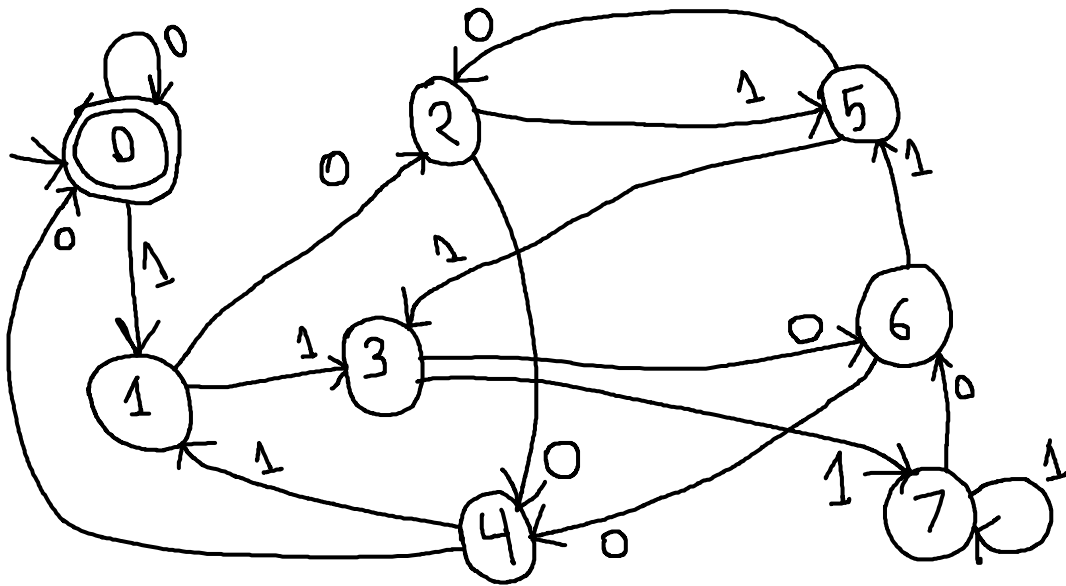


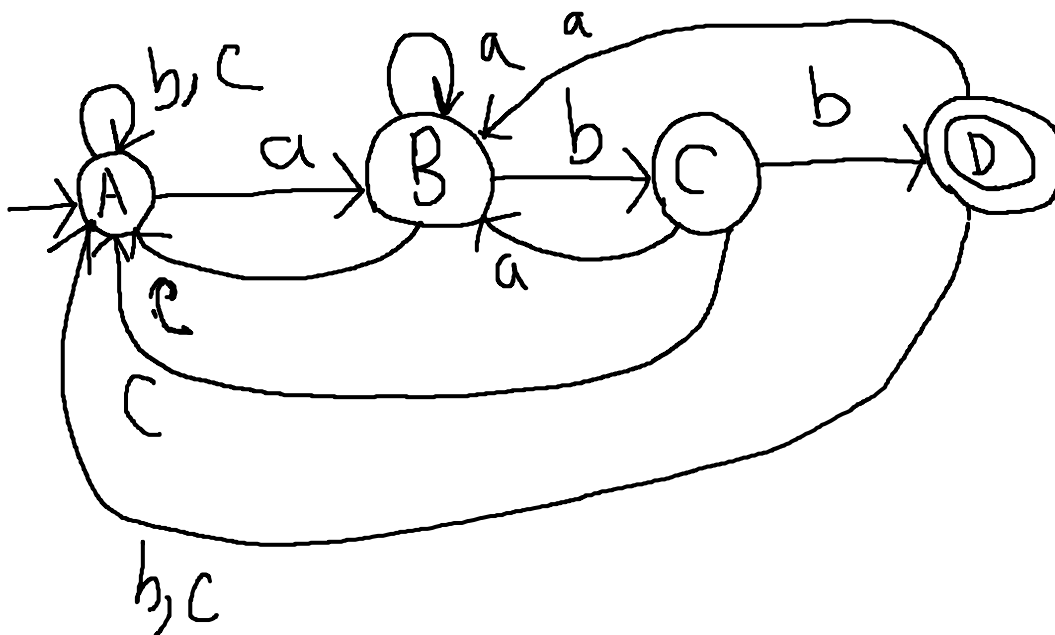
1. Draw a DFA for the set of binary strings that start with **01**. $\Sigma = \{0,1\}$



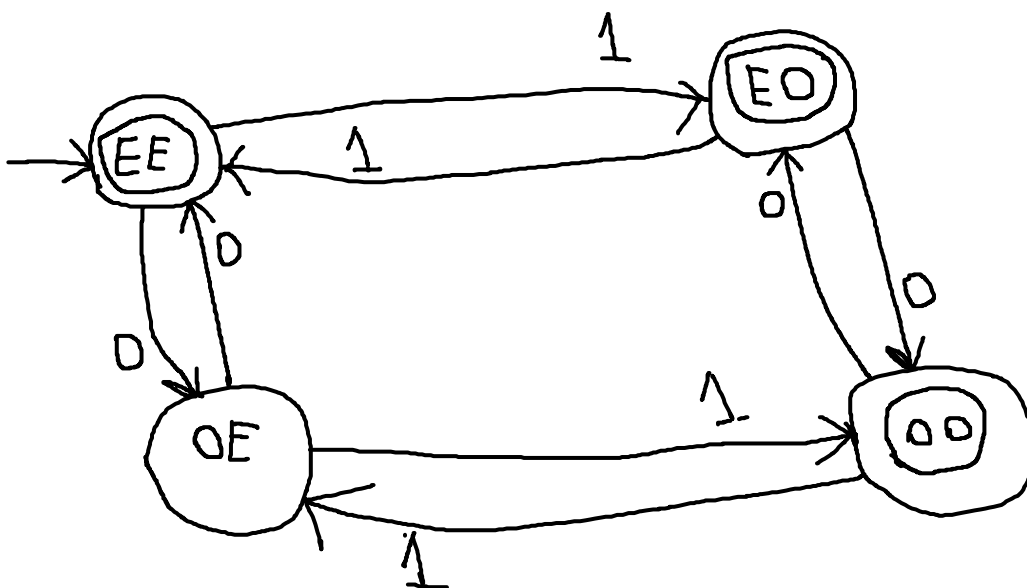
2. Draw a DFA for the set of binary strings that are divisible by 8 while considered as binary numbers. $\Sigma = \{0,1\}$



3. Draw a DFA for the set of strings that end with **abb**. $\Sigma = \{a, b, c\}$



4. Draw a DFA for the set of binary strings that have an even number of **0**'s or an odd number of **1**'s. $\Sigma = \{0, 1\}$

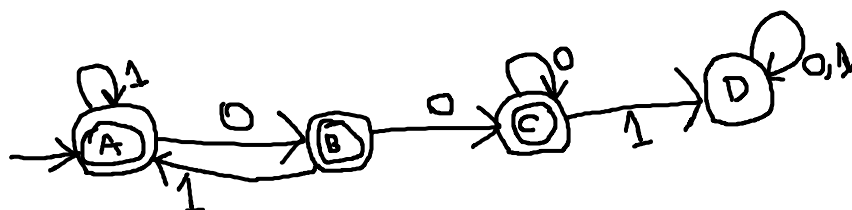


5. Draw a DFA for the set of strings that have **011** as a substring and **001** as not a substring.
 $\Sigma = \{0,1\}$

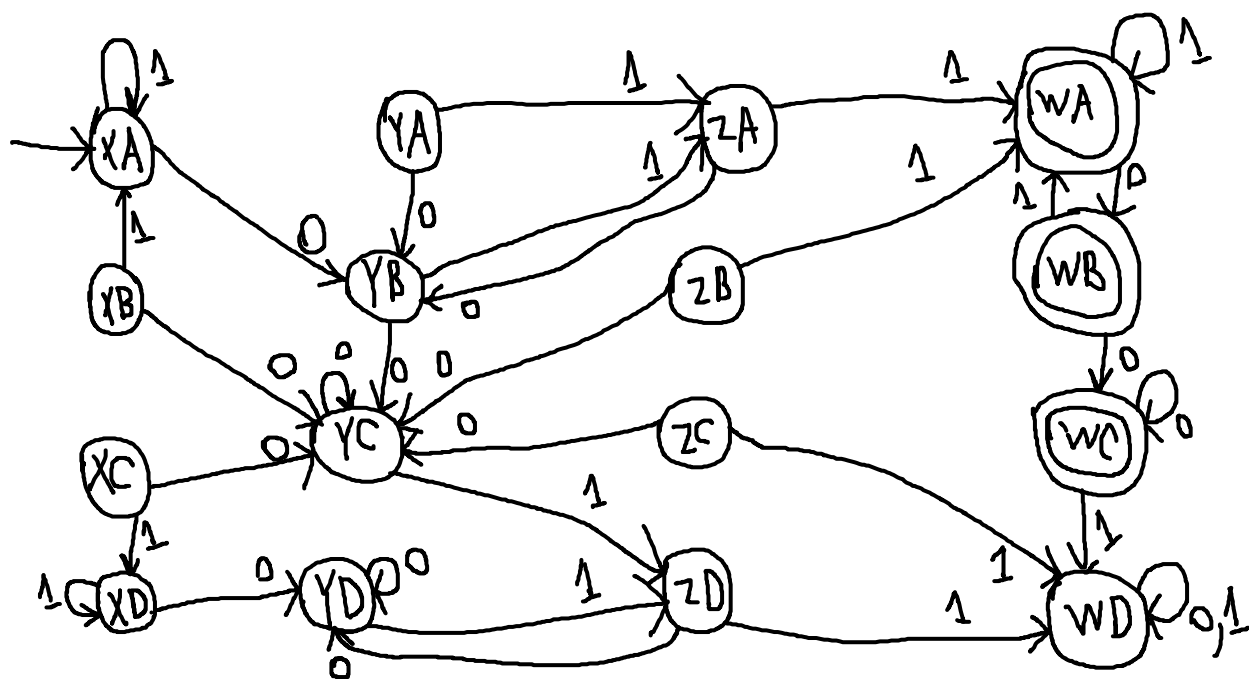
DFA for 011 as a Substring



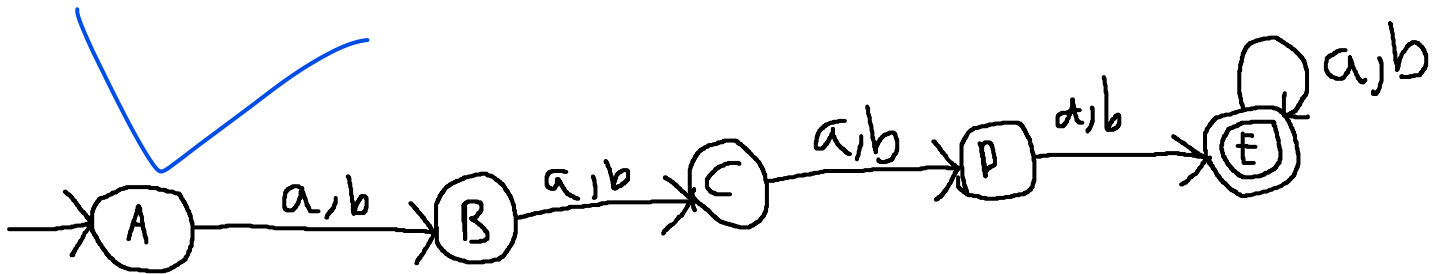
DFA for 001 as not a substring



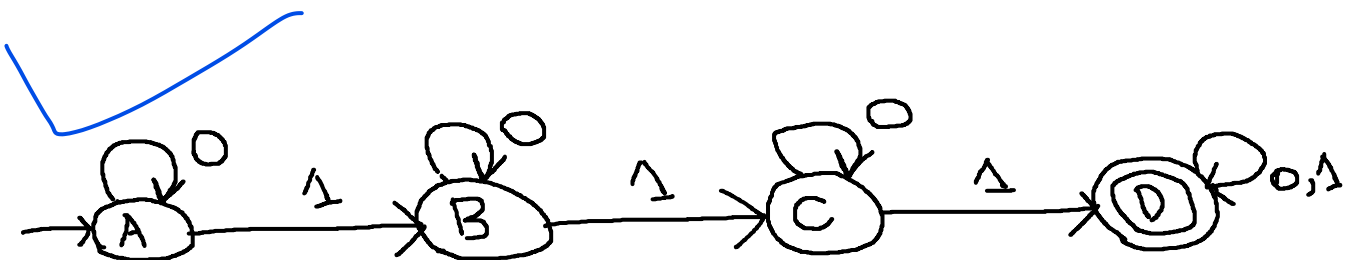
Cross Product of the two DFA



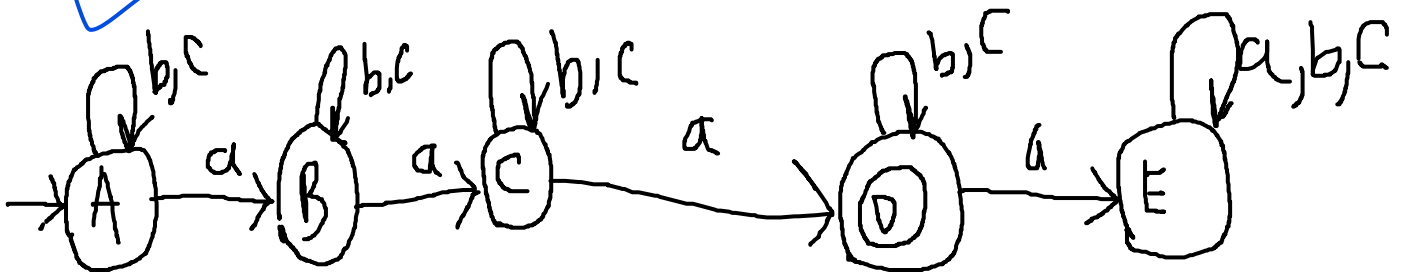
6. Draw a DFA for the set of strings that have a length of at least 4. $\Sigma = \{a, b\}$



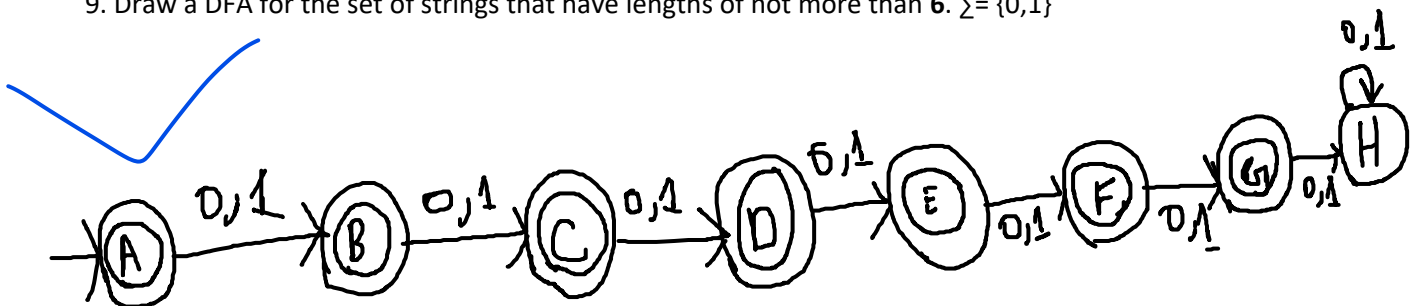
7. Draw a DFA for the set of binary strings that contain at least three 1's. $\Sigma = \{0, 1\}$



8. Draw a DFA for the set of strings that have exactly three a's. $\Sigma = \{a, b, c\}$

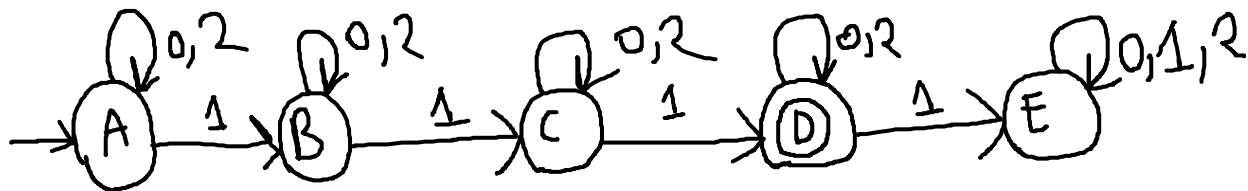


9. Draw a DFA for the set of strings that have lengths of not more than 6. $\Sigma = \{0, 1\}$

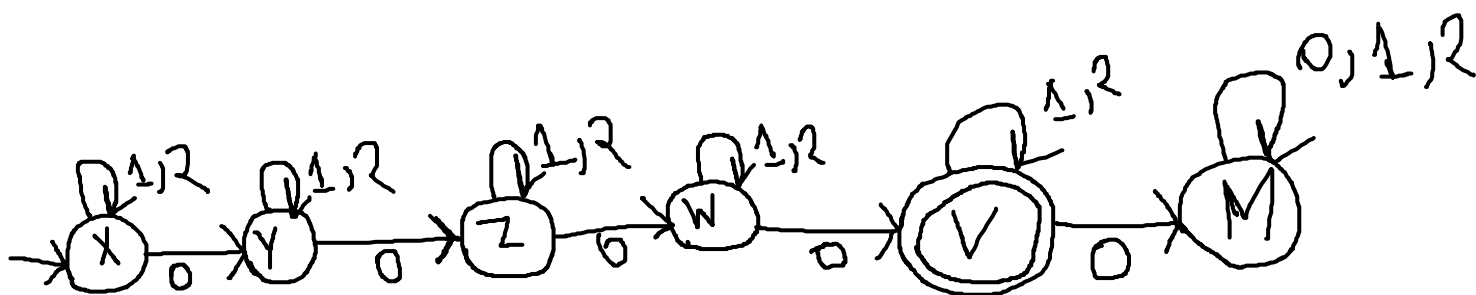


10. Draw a DFA for the set of strings that have exactly three 1's and four 0's. $\Sigma = \{0,1,2\}$

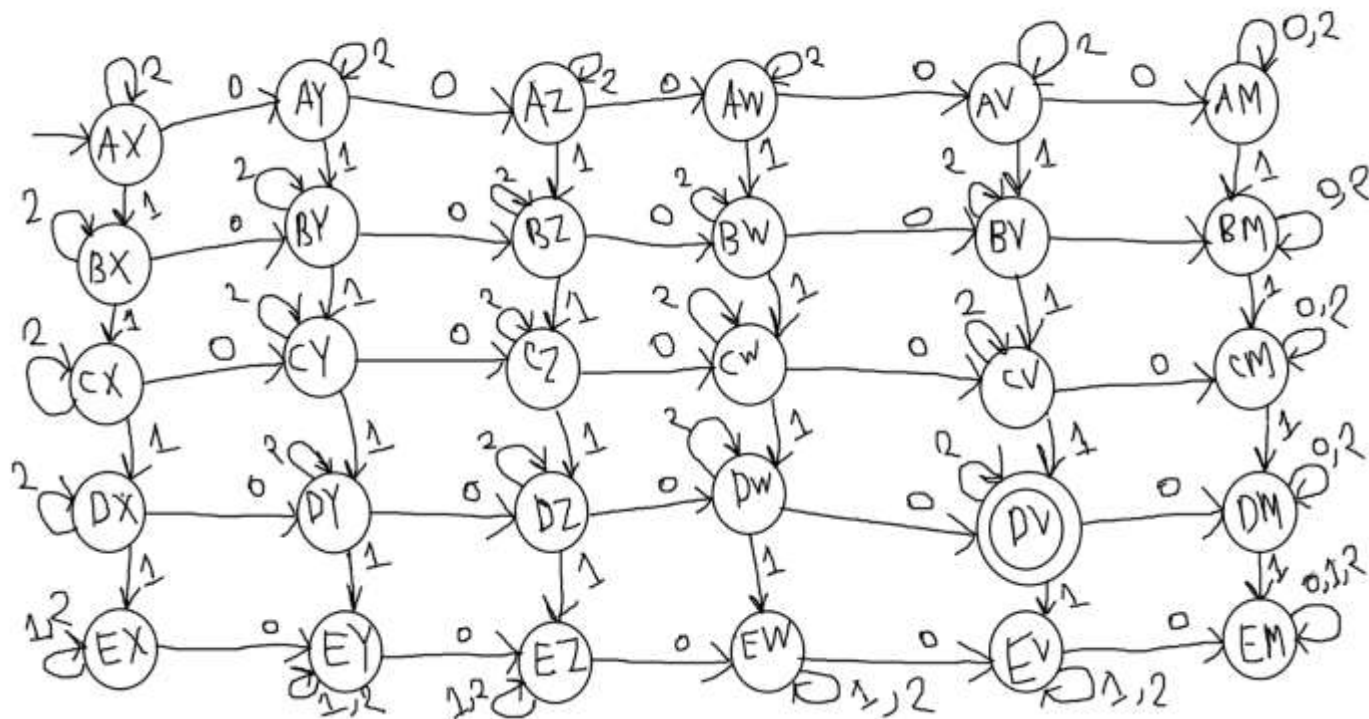
DFA for exactly three 1



DFA for exactly four 0



Cross product of the two DFA



11. Draw a DFA for the set of strings that have **three** consecutive 1's. $\Sigma = \{0,1\}$

