

Practice Sheet - DFA

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. $\Sigma = \{0,1\}$
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. $\Sigma = \{0,1,2\}$
11. Draw a DFA for the set of strings that have **three** consecutive **1**'s. $\Sigma = \{0,1\}$