

CSE331 Assignment 1

Section 1

Deadline: 11 October, 2022 11:59 pm

[Submit your assignment [here](#)]

Draw DFAs for the following languages. Assume $\Sigma = \{0, 1\}$

1. Strings that start with 10.
2. Strings that start with at least three 1s.
3. Strings that start with even number of 0s.
4. Strings that contain 10101 as a substring.
5. Strings that do not contain 10101 as a substring.
6. Strings that have at least two occurrences of 100.
7. Strings that end with 001.
8. Strings that end with at most two 0s.
9. Strings that end with odd number of 1s.
10. Strings that have 1011 as a subsequence.
11. Strings that do not have 1011 as a subsequence.
12. Binary strings whose decimal equivalent is divisible by 6.
13. Binary strings which has a 0 at its fourth position.
14. Binary strings which has a 1 at its third last position.
15. Binary strings whose decimal equivalent is divisible by 8 (You are not allowed to use more than 4 states).