**Assignment # 1**

**Course:** [Theory of Automata (CS) NC](https://ucaelearning.org/course/view.php?id=254)

**Student Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Student ID:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. anbn  {n ≥ 1}
2. anb2n {n ≥ 1}
3. a2nb2n  { n ≥ 1}
4. a3nb3n {n ≥ 1}
5. anbn+1 {n ≥ 1}
6. an+2bn {n ≥ 1}
7. anbmcn+m {m, n ≥ 1}
8. anbn+mcm {m, n ≥ 1}
9. an+mbnCm {m, n ≥ 1}
10. anb2n+1 {n ≥ 1}
11. an-1bn+1 {n ≥ 1}
12. a2nb2n-1 {n ≥ 1}
13. a2n-1bn-1 {n ≥ 1}
14. a2n-1b2n-1 {n ≥ 1}