## Practice Questions for Pumping Lemma for RL

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1. L = \{a^n b^n : n \ge 0\}
2. L = \{a^n b^m ; n, m \ge 0 \& n = m\}
3. L = \{a^m b^n ; n, m \ge 0 \& n = m\}
4. L = \{n_a(x) = n_b(x)\}
5. L = \{n_a(x) \ge n_b(x)\}
6. L = \{n_a(x) \le n_b(x)\}
7. L = \{0^{2n} ; n \ge 0\}
8. L = \{0^n 10^n; n \ge 0\}
9. L = \{0^{2n}10^n; n \ge 0\}
10. L = \{0^n 10^{2n}; n \ge 0\}
11. L = \{1^{2^n} ; n \ge 0\}
12. L = \{Perfect \ Sqaures; \ 0^{n^2}; n \ge 0\}
13. L = \{ww \mid w \text{ over } \{a, b\}\}
14. L = \{Palinrdromes\}
15. L = \{0^n 1^m 0^{n+m}; n, m > 0\}
16. L = \{primes; 0^p\}
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