



B36 Sept 8 Lec 1 Notes

1a. $\text{del0}(100110) = \{10110, 10110, 10011\}$

1b. $\text{del0}(111) = \emptyset$

1c. $\text{dupl}(100110) = \{1100110, 1001110, 1001110\}$

1d. $\text{dupl}(000) = \emptyset$

1e.

$$L = \{xy \mid z \in \text{del0}(x), y \in \text{dupl}(z)\}$$

$$L = \{x \mid \exists t, v, w \text{ s.t. } x = \frac{\phi}{t0w/vtw} \text{ OR } x = \frac{tuvw}{t1w0vt11wv}\}$$