

Today: Post Correspondence Problem. § 5.2.

Next class: Mapping reducibility. § 5.3.

Reminders: Homework. Reading. Newsgroup.

1. List the members of your group below. Underline your name.

2. Solve the following instances of the Post Correspondence Problem. The first is from Post's original paper describing the problem,¹ which is very readable.

(a) $\left\{ \left[\frac{bb}{b} \right], \left[\frac{ab}{ba} \right], \left[\frac{b}{bb} \right] \right\}$

(b) $\left\{ \left[\frac{ab}{abab} \right], \left[\frac{b}{a} \right], \left[\frac{aba}{bb} \right], \left[\frac{aa}{bb} \right] \right\}$

(c) $\left\{ \left[\frac{bba}{b} \right], \left[\frac{b}{a} \right], \left[\frac{a}{bba} \right] \right\}$

¹Emil L. Post. A variant of a recursively unsolvable problem. *Bulletin of the American Mathematical Society*, 52:264–268, April 1946

[additional space for answering the earlier question]