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Today Catch-up and review. Next class Midterm exam. Reminders Newsgroup.

- 1. List the members of your group below. Underline your name.
- 2. For each of the following languages, provide a context-free grammar and a brief justification of its correctness.
 - (a) $L_1 = \{ww \mid w \in \{a, b\}^* \text{ and } |w| > 3\}$
 - (b) $L_2 = \{ww \mid w \in \{a, b\}^* \text{ and } |w| \equiv 2 \mod 4\}$
 - (c) $L_3 = \{www \mid w \in \{a, b\}^* \text{ and } |w| < 3\}$

3.	Provide informal and guages of Question 2.	formal	description	ns of pushdo	wn automata	for each c	of the l	lan-
4.	(extra) Prove or dispr	ove the	regularity	of each of th	ne languages o	of Question	ı 2.	