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Today The class NP, and NP-completeness. §§7.3–4. Quiz next week. **Next class** NP-complete problems. §7.5. Quiz on Thursday next week.

- 1. List the members of your group below. Underline your name.
- 2. Provide a program that is a polynomial time verifier for HAMPATH. Explain the format of the input and certificate assumed by your program. Justify its correctness.

	(b)	union.
	(c)	concatenation.
5.	Com	aplete the CYK question from the previous exercise.

 $3.\,$ Trace Euclid's algorithm to compute the GCD of 3838 and 19302.

4. Prove or disprove each: The class P is closed under

(a) complement.