ICS 6D—Winter 2024 (Dillencourt)
Homework 6

1. Zybook exercise 9.5.1(e). (On this question and the next one, be sure to follow the model solutions in the Zybook. In particular, write down the sequence consisting of the two numbers (larger number first), followed by the sequence of remainders, as shown on the first line of the solutions. Note that the last remainder is always zero. On Test 3 we will specifically ask you to do this.)

2. (This question was posted in error. Please ignore it.)

3. Zybook exercise 9.5.1(f).

4. Zybook exercise 9.5.2(b). (On this question and the next two, keep in mind that $z \bmod n$ must always be between 0 and $n - 1$, inclusive.)

5. Zybook exercise 9.5.2(c).

6. Zybook exercise 9.5.2(d).

7. Zybook exercise 9.6.1(b).

8. Zybook exercise 9.6.1(d).

9. Zybook exercise 9.6.1(f).

10. Zybook exercise 9.6.1(h).

11. Zybook exercise 9.6.7(b). (Hint: for this question and the next one, follow the model of 9.6.7(a) which is visible in the Zybook.)

12. Zybook exercise 9.6.7(c)