

# CS 561, HW1

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*Due: Sept 4*

If you have an older version of the book, check with a friend to make sure you get the right numbers for exercises (the numbers are different for the first and second editions)

1. Exercise 3.1-2
2. Exercise 3.1-3
3. Exercise 3.1-5
4. Exercise 3.1-7
5. Problem 3-1
6. Problem 3-3
7. Exercise 4.1-6
8. Exercise 4.2-1
9. Exercise 4.3-1
10. Exercise 4.3-2
11. Problem 4-6
12. Write and solve a recurrence relation giving the number of integers with no more than  $n$  digits that when written in decimal have at least one three in them.