CS510 Assignment #4

Do the following exercises from the textbook.

- 1. Exercise 4.2.
- 2. Exercise 4.3
- 3. Exercise 4.4
- 4. Exercise 4.6 (b, c, e, f)
- 5. Let A be the set of all functions from natural numbers (N) to natural numbers:

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A={f | f is a function, f: N\rightarrowN}, where N={1, 2, 3, ...}. Show that A is uncountable using a proof by diagonalization.
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- 6. Exercise 4.8
- 7. Exercise 4.13

What to submit:

Submit answers to all the questions on Canvas as a pdf file.