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Assignment: Section 6.2: 4, 6, 14, 32, 36 (7th edition)

- 4.
- a) 5
- b) 13
- 6.

N = d + 1 and k = d so at least [d + 1 / d] = 2 will have the same remainder

- 14.
- a) Subset of 11: $\{1, 10\}$, $\{2, 9\}$, $\{3, 8\}$, $\{4, 7\}$, $\{5, 6\}$. All of these pairs add up to 11. So therefore at least two of these will add up to 11
- b) No, if you add another integer only one will add subset that will add to 100.

32.

Per Pigeonhole Principle, at least [100,000,000/99,999,999] = 2 people earned the same amount last year.

36.

N = 6, k = 5, so at least $\lceil 6/5 \rceil = 2$ computers are connected to the same number of computers