- 1a. Whichever of |X| and |Y| is larger.
- 1b. Size of |X| plus |Y|.
- 1c. Size of |X| plus |X| n times
- 1d. Infinite
- 2a. Bool
- 2b. function that takes a bool and returns a bool.
- 2c. Tuple of type bool * bool.
- 4a. Yes. Any number that is divisible by 12 will also be divisible by 3.
- 4b. Yes. Any number that is divisible by 3 is also divisible by 3
- 4c. No. 12 + 1 = 13, and 13 is not divisible by 12. Therefore there is at least one value that could be unsafe.
- 4d. Yes. All integers that are divisible by three are integers
- 4e. No. there are values that are integers that are not divisible by three, like the value 2.
- 4f. Yes. Any number divisible by three will also be divisible by that number plus three.
- 4g. Yes. Any number divisible by 12 is also divisible by 3, therefore any number divisible by 12 added to any number divisible by 3 will also be divisible by 3.