# Problem Set 1

#### Introduction to R

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#### Problem Set 1

Please complete the following questions in R in a quarto document. Please complete each exercise in a different code chunk.

#### Assignment, arithmetic, logical expressions

- 1. Assign x and y to take values 3 and 4.
- 2. Create a new variable z as the product of variables x and y.
- 3. Write code to calculate the square of 3. Assign this to a variable three\_squared.
- 4. Write a logical expression on whether **x** is greater than 10. When might you need to filter data based on a condition?
- 5. Write a logical expression testing whether x is not greater than 10

### **Sequences**

- 1. Generate vectors containing the numbers 100, 101, 102, 103, 104, and 105 using 3 different methods (e.g., c(), seq(), :). In what scenarios might each method be most convenient?
- 2. Generate a sequences of all even numbers between 0 and 100
- 3. Create a descending sequence of numbers from 100 to 1, and assign it to a variable.