Week 1 Exercises

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Please complete all exercises below WITHOUT using any libraries/packages.

Exercise 1

Assign 10 to the variable x. Assign 5 to the variable y. Assign 20 to the variable z.

#your code below

Exercise 2

Show that x is less than z but greater than y.

Note: your output must be a SINGLE boolean, do not output a boolean for each expression.

#your code below

Exercise 3

Show that x and y do not equal z.

Note: your output must be a SINGLE boolean, do not output a boolean for each expression.

#your code here

Exercise 4

Show that the formula x + 2y = z.

Note: your output must be a SINGLE boolean

#your code below

Exercise 5

I have created a vector (test_vector) of integers for you. Determine if any of x, y, or z are in the vector.

Note: your output must be a SINGLE boolean, do not output a boolean for each expression.

```
test_vector <- c(1,5,11:22)
#your code below</pre>
```

Exercise 6

Show which value is contained in the test vector. To do this you will need to create an element-wise logical vector using operators. x == vector. Once you have done that you will need to use slicing to return all indices that have matches. **Note:** your output should be two integers

#your code below