

# Week 1 Exercises

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May 9, 2022

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

## Exercise 1

subheader

heavily nested

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

```
#your code below
library(readxl)
sales <- read_excel("C:/Users/Jlowh/Documents/DSE5002/Week_2/Data/sales.xlsx")
sales$Region
```

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##      [1] "South"  "South"  "West"    "South"  "South"  "West"    "West"
##      [8] "West"    "West"    "West"    "West"    "West"    "South"    "West"
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##	[1667]	"Central"	"Central"	"Central"	"East"	"Central"	"West"	"Central"
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##	[1695]	"East"	"East"	"East"	"West"	"West"	"West"	"East"
##	[1702]	"East"	"East"	"West"	"West"	"East"	"West"	"West"
##	[1709]	"West"	"West"	"West"	"West"	"Central"	"Central"	"West"
##	[1716]	"East"	"East"	"East"	"East"	"East"	"East"	"Central"
##	[1723]	"Central"	"Central"	"East"	"East"	"East"	"East"	"South"
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##	[5076]	"Central"	"Central"	"Central"	"Central"	"West"	"West"	"East"

##	[5083]	"South"	"South"	"East"	"Central"	"East"	"East"	"East"
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## 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
```

## 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
```