lab_fundamentals_1

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1.the first output is a vector, the second is a string

```
c_1 <-  c(1,2,3)
c_2 <- "c(1,2,3)"
```

2.c_1 is a variable, there is no input/output just an assigned value 3.c_2 is a variable for the same reason as above 4.C_1 AND c_2 have different values because they're different classes of object

```
my_vec <- 1:6
mat_1 <- matrix(my_vec, nrow = 3)
```

5.[3,2] 3 rows two columns

6.

```
mat_1[3,1]
```

```
## [1] 3
```

```
mat_2 <- matrix(my_vec, nrow = 2, ncol = 3)
mat_3 <- matrix(my_vec, nrow = 3, ncol = 2)
```

7. mat_2 <- matrix(my_vec, nrow = 2, ncol = 3) 8.mat_3 <- matrix(my_vec, nrow = 3, ncol = 2) 9.columns

8.

```
mat_4 <- matrix(my_vec, )
```

11.

```
my_list_1 <- list(5.2, "five point two", 1:5)
```

12. value, value, null, null, null, null, error, null 13.none, the second element of the list was never called 14.3,4,5,6 and 8 were null because they were invalid elements