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Lab 1

1. The outputs of the two lines are different because the second line (one with quotes) R is reading it as text, the quotes create a string. The first line (without quotes) is being read as integers, so it just reprints the numbers in the line.
2. C\_1 would be a variable because it is storing the values 1,2,3 in c\_1.
3. C\_2 would be a variable because it is storing the values “1,2,3” in c\_2.
4. C\_1 and C\_2 have different values because c\_1 is being read as integers and c\_2 as text
5. The dimensions of this matrix are 3 rows and 2 columns

A screenshot of a computer

Description automatically generated with low confidence

1. mat\_1[3,1]
2. mat\_2 = matrix(my\_vec, nrow = 2, ncol = 3)
3. mat\_3 = matrix(my\_vec, nrow = 3, ncol = 2)
4. R used columns to recycle/distribute the values in my\_vec.
5. A screenshot of a computer

   Description automatically generated with medium confidence
6. R handled it well when I started doing the correct way. It kept telling me the matrix only had 6 values until I added the 7 and 8 value to the my\_vec in the first line shown about. After creating the matrix was like the previous steps and it recycled the values in the way I asked.
7. Line 1: 5.2 Subsetting used: double square brackets [[]]. This function told R to select value of the first element.

Line 2: 5.2 subsetting used: double square brackets [[]]. The “” in the code told R to read 1 as a text and to gives its value as a numeric. The value was stored in 1 so R was able to read it.

Line 3: NULL subsetting used: double square brackets [[]]. This produced null because the “” made R produce the equivalent value of 1 not actual or simplified. The equivalent to this would be 1 not one.

Line 4: “five point two” subsetting used: double square brackets [[]]. The “one” in the brackets told it to read it as the text version of the one value so it selects the value stored to “one”

Line 5: “five point two” subsetting used: $ like number 4 it selects the one value as a text.

Line 6: “five point two” subsetting used: $ R used it to select the text one, so it produced the value stored in “one"

Line 7: Error: unexpected numeric constant in “my\_list\_1$1” subsetting used: $

Line 8: NULL sebsetting used: $ R like line 3 told it to read 1 as a text not numeric and there was no text as 1 in the code.

1. Lines 4, 5, and 6 produced “five point two”. They did this because they called on the “one” variable inside the list I created.
2. Lines 3 and 8 produced NULL, both lines produced the NULL value because the line it tells R to read the value of 1 as a text because of the “”. This is reading the number 1 as a text and there is no text of 1 in the original code, so it threw the NULL.