

HW_1

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Question 2

1. The data in the vector are all strings
- 2.

```
my_vec <- c(
  "+0.07",
  "-0.07",
  "+0.25",
  "-0.84",
  "+0.32",
  "-0.24",
  "-0.97",
  "-0.36",
  "+1.76",
  "-0.36"
)
```

```
my_vec_double <- c()
for (elem in my_vec) {
  my_vec_double <- append(my_vec_double, as.double(elem))
}
my_vec_double
```

```
[1] 0.07 -0.07 0.25 -0.84 0.32 -0.24 -0.97 -0.36 1.76 -0.36
```

```
my_vec_int <- c()
for (elem in my_vec) {
  my_vec_int <- append(my_vec_int, as.integer(elem))
}
```

```
my_vec_int
```

```
[1] 0 0 0 0 0 0 0 0 1 0
```

3.

```
my_vec_bool <- c()
for (elem in my_vec_double) {
  if (elem >= 0) {my_vec_bool <- append(my_vec_bool, TRUE)}
  else if (elem <= 0) {my_vec_bool <- append(my_vec_bool, FALSE)}
}
print(my_vec_bool)
```

```
[1] TRUE FALSE TRUE FALSE TRUE FALSE FALSE FALSE TRUE FALSE
```

```
table(my_vec_bool)
```

```
my_vec_bool
FALSE  TRUE
     6     4
```

There are four elements greater than 0.

4.