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))
}
```

```r
my_vec_int
```

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

3.

```r
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
```

```r
table(my_vec_bool)
```

```
my_vec_bool
FALSE  TRUE
    6     4
```

There are four elements greater than 0.

4.

```r
sort(my_vec_double)
```

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