

Week-8

CMPE-100 Classwork

Hint:

Read the HTDP chapter 9 in order to understand Lists.

Question #1:

Develop a function that consumes a list of numbers and computes the difference between the number of positive numbers in the list and the number of negative numbers in the list.

Test:

```
(f empty)
"should be" 0
(f (cons 1 empty))
"should be" 1
(f (cons -1 (cons 1 (cons -2 empty))))
"should be" -1
```

Question #2:

Develop a function that consumes a list of booleans and determines whether one of them is `true`. Consider whether `empty` contains a `true` element.

Test:

```
(or-list empty)
"should be" false
(or-list (cons true (cons false empty)))
"should be" true
(or-list (cons false (cons false empty)))
"should be" false
```