Exercise 1.17

If all input numbers are equal, the **else** branch in the **while** loop is never executed. After breaking from the **while** loop, the program prints out the value and the number of times it occurs.

If all input numbers are distinct, the **if** branch in the **while** loop is never executed. The program always executes **else** branch to print out each number and the occurring time 1 for each number.