Programming for VR 1 — Files and stats Quiz 4 Full name: _____
Feb 11 2020 This quiz is worth a total of **5 points**.

Answer each question to the best of your ability. The last two questions are bonus.

1. Fill in the blank: `open('myfile.txt', __'r'__)` opens a file for reading. [1]

2. True or False: if you try to write to a file that already exists, Python will throw an error. False [1]

3. I created a CSV file containing the (x,y) coordinates of a polygon I want to draw, but when I load it in Processing I get an error. What's wrong with my file? [1]

```
"x","y"
50,0
100,50
50,100
0      ,0
50,0
```

4. Fill in the blank so the function below returns the second smallest element in the list of integers x: [1]

```
def second_smallest(x):
  return sorted(x)[ __1__ ]
```

5. Write a function `number_of_x(my_list)` that returns the number of times the letter 'x' appears inside of a list. For example: `number_of_x(['x', 'o', 'x'])` should return 2. [1]

```
def number_of_x(lst):
  counter = 0
  for i in range(len(lst)):
    if lst[i] == 'x':
      counter += 1
  return counter
```

6. (bonus) Write a function `is_sorted(x)` that returns `True` if the list `x` is sorted (that is, each subsequent element of x is greater or equal than the previous one) or `False` if it's not sorted. [1]

```
def is_sorted(lst):
  for i in range(1, len(lst)):
    if lst[i] < lst[i-1]:
      return False
  return True
```

7. (bonus) We've seen how to use the `circle` drawing function to draw scatter plots and the `line` drawing function to draw line plots. What drawing function would you use to draw a bar chart? [1]

rect