Assume that you have a CSV file in the format shown below (were # indicates a grade item). Note that the student's name is a single, quoted field.

```
"Last, First", Section, #, #, #, #, #, ...
```

Write a function that, given a filename, a section number, and a grade item will print the class average on the grade item for just that section.

```
>>> section_avg("grades.csv", 4, 12)
Section Average: 83.76
>>> _
```

```
def section average(filename, section number, grade item):
       score = 0
       students = 0
       with open(filename) as csvfile:
              reader = csv.reader(csvfile):
                     if row[3] == section number:
                            score += float(row[4+int(grade item)])
                            students += 1
       average = score / students
       print("Section Average: ", average)
def main():
       section average("grades.csv", 4, 12)
main()
```

import csv

```
import csv
def name and address(filename):
      with open(filename') as csv file:
             csv reader = csv.reader(csv file)
             next(csv reader)
             for record in csv reader:
                    print(record[0], record[1])
def main():
      name and adress("cityofrochester.csv")
main()
```

Rewrite the code below so that it uses Python csv module to process the data.

```
def name_and_address(filename):
    with open(filename) as csv_file:
    next(csv_file)
    for line in csv_file:
        record = line.split()
        print(record[0], record[1])
```

Consider the example names in the list below. Work with your team to come up with regular expressions to match the descriptions on the right.

```
"Tsiatsos, III, Shamella" = 1
"Myrman, Carlyne" = 2
"Standeven, Markeith" = 3
"Adan, IV, Marciano" = 4
"Pelphrey, Ruven" = 5
"Schneiderman, Trenee" = 6
"Hick, Kateland" = 7
"Blackie, II, Percival" = 8
"Stueber, Jazzman" = 9
"Vanderberg, Ileana" = 10
```

Names containing a "t" or "T" anywhere in the name.

• 1, 3, 6, 7, and 9.

Last names beginning with "S".

1.

First or last names beginning with "P".

• 5 and 8.

Match a given first and last name.

None.

Names with any suffix (like "IV")

• 1, 4, and 8.

```
import csv
def student info(filename, last name):
        with open(filename') as csv file:
                 csv reader = csv.reader(csv file)
                 next(csv reader)
                 for row in csv reader:
                         name, section, grades = row
                         last, first = name.split(",")
                         if last.lower() == last name.lower():
                                  print("Name: ", first and last, "Section: ", section)
def main():
        student info("students.csv", Jamal)
main()
```

Write a function that, given a filename and last name, prints the *full name* and section number of the matching student. Assume the file is in the same format that you used previously.

"Last, First", Section, #, #, #, #, #, ...