Problem 1

a. `quantities = [[0, 0], [0, 0], [0, 0], [0, 0]]` *(choice "a")*

b. `print(quantities[0][0])`

c. `q = quantities[2][1]`

d. `quantities[-1][0] = 12`

e. 45 elements (5x9)

f. 9 rows

g. `[[15,0],[0,0],[0,0]]`

h. `[[15,0],[15,0],[15,0]]`

i. `numbers = [[0 for cx in range(NUM_COLS)] for rx in range(NUM_ROWS)]`

Problem 2

```
for row in data:
    for col in row:
        print(' ', col, end=' ')
    print()
```

Problem 3

```
for i in range(NUM_COLS):
    print("Column {}: {}".format(i+1, sum([row[i] for row in account_yields])))
```

Problem 4

a. yesnoyes

b. abcabcabc

c. ef

Problem 5

a. `word[1:-1]`

b. `name.replace(',', '')`

c. `sentence = sentence.replace('t', 'T')`

d. `guess = '-' * len(word)`

e. There are two reasonable approaches:
   1) *Create a copy with slicing:*
      `guess = guess[:4] + 'a' + guess[4:]`
   2) *Convert the string to a `list`, change the desired element, and convert back using `str.join`:*
      `temp = list(guess)`
      `temp[4] = 'a'`
      `guess = str.join('', temp)`
f. `index = word.find('a')`
g. `guess = guess[:index] + 'a' + guess[index:]`
h. `days.split()`
i. `data.split('#')`
j. `last, first, idnum, status = data.split('#')`

Problem 6

a. `color.lower() == "blue"`

b. `color.lower()` **`in`** `("blue", "b")`