Computer Science 134

Introduction to Computer Science, in Python HW Solutions HW 4 (Spring 2020)

Keywords CS134, HW4, solutions

Below are some of the preferred answers for Homework 4.

- 1. Question 1 (1pt): dateTup = (dateTup[0],) + (9,) + (dateTup[1],). Parentheses are optional, the 3 commas are not. dateTup = (dateTup[0],day,dateTup[1]) is also correct, but you should also understand the first answer.
- 2. Question 2 (1pt): colName, foundYear, colState = collegeInfo. There might be other options, but focus on "simpler or more elegant".
- 3. Question 3 (2pt): None will be stored in bugDates because append returns None. (Or some comparable explanation).
- 4. Question 4 (2pt): Use .get(..), it's useful and important! No conditionals.

```
def processZip(zipCodes):
    oldZip = zipCodes.get('home', '01267')
    zipCodes['home'] = '01267'
    return oldZip
```

- 5. Question 5 (2pt): firstData = [course.split()[0] for course in courseInfo.split(',')]

 It's also okay to use strip() (although it's not necessary for the first words, just anything after that!):

 firstData = [course.split()[0].strip() for course in courseInfo.split(',')]
- 6. Question 6a (1pt): byType = sorted(fruitData, key=lambda x: x[0])
 OR byType = sorted(fruitData)
- 7. Question 6b (1pt): byType = sorted(fruitData, key=lambda x: (x[2], x[1]))