# Mid-semester test feedback

12 September 2016

#### Lecture overview

#### Today

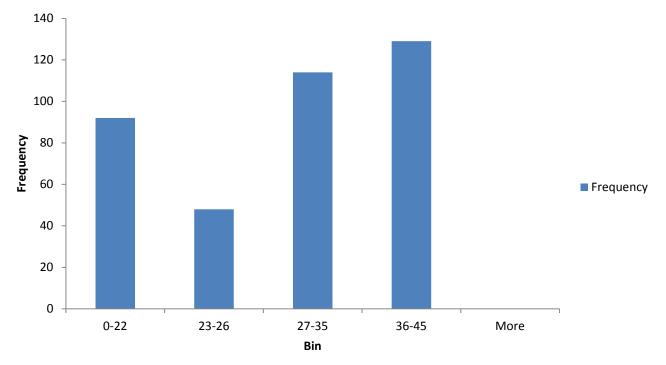
- MST feedback (marks will be uploaded tonight)
   Project 1
- We are currently marking
- Test paper viewing
- 12noon-1pm Monday 19 September in room 7.02 Doug McDonell building

# Mid-Semester Test

#### Overall Mark Distribution

 Most people did very well, even though we were quite hard on the marking

Total (out of 384 students)



```
(a) 'tra' + 'la' * 2
```

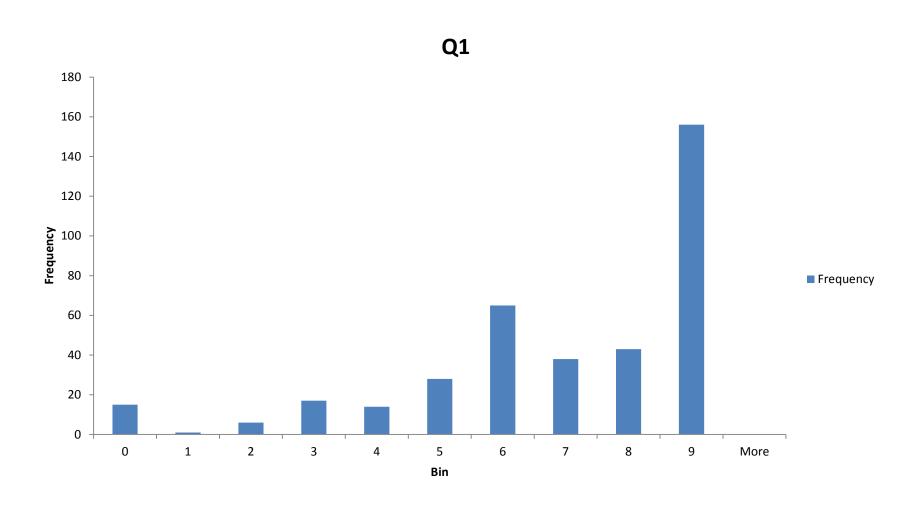
A: 'tralala'

(b) 'python3'[1: :2]

A: 'yhn'

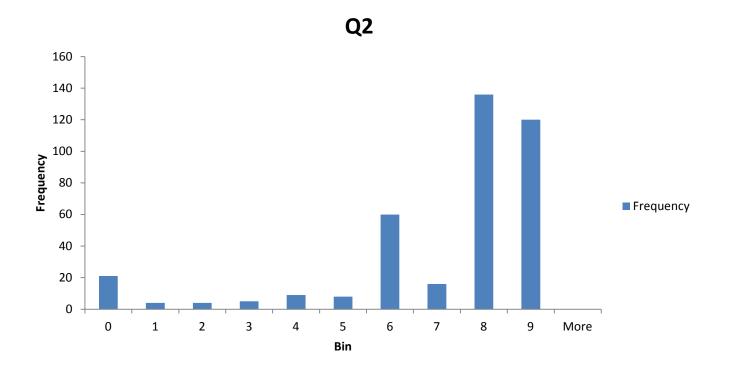
(c) **sorted**({7 : 6, 5 : 4, 3 : 2}.values())

**A:** [2, 4, 6]

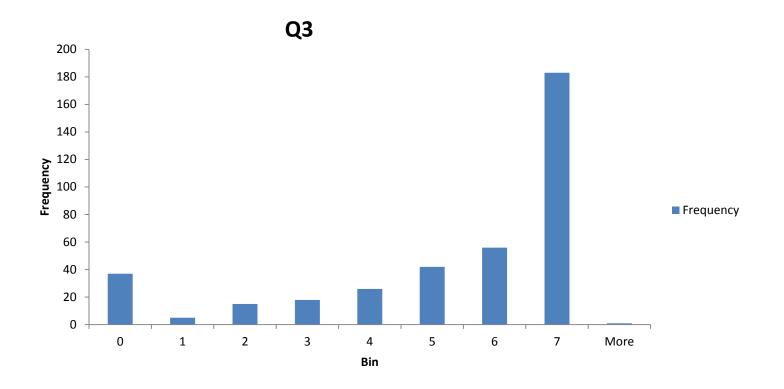


```
numbers = [33, -17, 8, 99, -
102, 88]
a = []
                                  (a) a
b = []
c = []
                                  A: [33, 99]
for n in numbers:
                                  (b) b
  if n > 0:
    if n % 2 == 1:
                                  A: [8, 88]
      a.append(n)
                                  (c) c
    else:
       b.append(n)
                                  A: [-102, -17]
  else:
    c = [n] + c
```

Most people have no problems tracing the execution of code

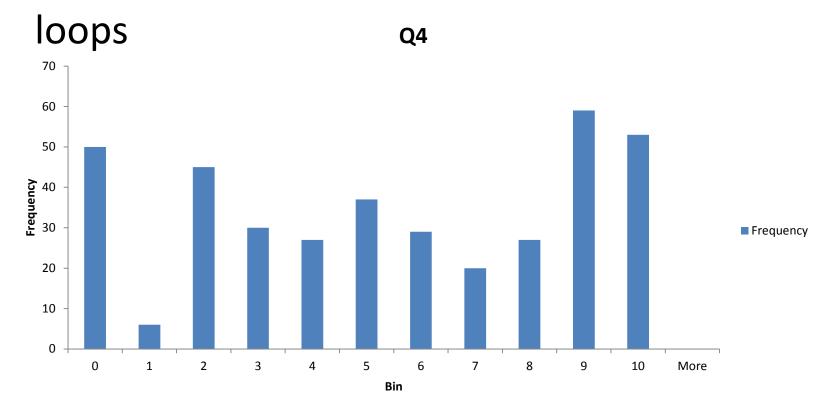


Make sure you practice writing while loops



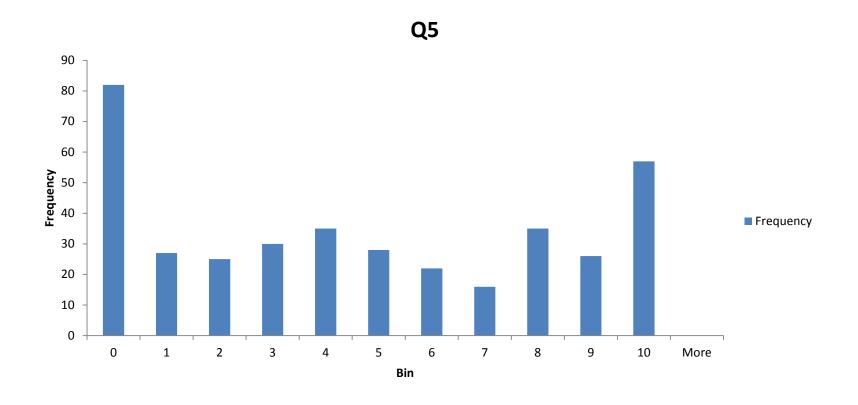
```
def calculate bill(prices, bill):
                                       total = 0
 (1)
                                       bill:
 for item in (2)
                                       item[0]
   product = (3)
                                       prices[product]
   price = (4)
                                       item[1]
   total += price * (5)
 return total
```

- A lot of people struggled with this!
- Practice your dictionaries and accumulator



```
>>> digital root(678)
3
def digital root(n):
  numstring = str(n)
  while len(numstring) > 1:
    total = 0
    for digit in numstring:
      total += int(digit)
    numstring = str(total)
  return int(numstring)
```

This one was expected to be difficult



#### What to do...

- If you scored 36-45 you are well on track. Try building your skills on the harder problems, and make sure you can write code under exam conditions without making syntax errors
- If you scored 23-35 you are getting through, but still have some noticeable gaps in your skills. Identify the questions and worksheet problems where you have difficulty, make sure you have a thorough understanding, and keep practicing.

#### What to do...

If you scored 22 or less, don't panic.

- (1) Do you understand all the basics data types, iteration, functions
- (2) Can you trace through the behaviour of a function, and find any logical errors
- (3) Practice solving old tutorial questions, worksheets, project exercises, class exercises from the lectures, practice tests, and make a list of where you get stuck, and what you get wrong
- (4) Focus on that list of your difficulties, and revise your notes, talk to your tutor (or the on-line tutor), post a question of the discussion forum or arrange to see Chris
- (5) There are many ways we can help, but you need to <u>act now</u> to take control