CS150 - More if statements

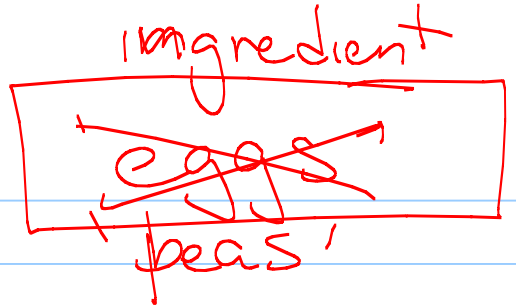
Note Title 2/6/2012

Announcements

- HW1 - email grade tonight

- HW3 due in 1 week
  - can work w/ partner
  - based on Ch 2 question, so don't need loops or ifs.

Quiz recap:




```
food = ['eggs', 'peas', 'broccoli', 'salt']
for ingredient in foods:
    print ingredient[2]
```

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If statements

Ex:

```
weight = float(raw_input('How many pounds does your suitcase weight? '))

if weight > 50:
    print 'There is a $25 charge for luggage that heavy.'
print 'Thank you for your business.'
```

If-else

```
temp = float(raw_input('What is
       the temperature?'))

if temp > 70:
    print 'Wear shorts.'
else:
    print 'Wear long pants.'
print 'Let's go outside!'
```

Nested ifs

```
if temp > 70:
    print 'Wear shorts.'
else:
    if temp > 60:
        print 'Wear pants and a tshirt.'
    else:
        print 'Wear pants, and don't forget a coat.'
```

Can get difficult with spacing...

Elif:

```
if temp > 70:
    print 'Wear shorts.'
elif temp > 60:
    print 'Wear pants and a tshirt.'
elif temp > 30:
    print 'Wear pants, and don't forget a coat.'
else:
    print 'Bundle up!'
```

Another elif:

Program to let the user enter a number.

Compare it to "secret" number, & tell them if they guessed correctly or were too low or too high.

Practice:

P. 4.20

```
for x in range(20):
    if x % 9 == 0:
        print x, 'is divisible by 9'
    elif x % 3 == 0:
        print x, 'is divisible by 3'
```

Output?
(code it to check if you're correct)

P 4.19 Write code that, given a list of strings, produces a new list, shortWords, that includes all original strings of length 3 or less.