

Lab 8

- List Review
- Deal or No Deal

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1

Lab 7 Feedback

- Missing function comments
 - Others need to know *how to use* the function
 - Good comments in lab description

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2

Comment Example

```
# Encodes a single character.  
# PRE: Input parameters are a single, lowercase  
# character string (char) and an integer key  
# (between -25 and 25, inclusive)  
# POST: returns the encoded character  
def translateLetter(char, key):
```

- Does not say *who* called function, where returned to
- Does not say variable name returned

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3

Commenting Exercise

- Write a comment for this function:

```
def encode(toEncode, key):
```

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4

Commenting Exercise

- Write a comment for this function:

```
# Encodes a lowercase string using a key,  
# preserving spaces in the string.  
# PRE: a lowercase string to be encoded  
# (toEncode) and the integer key (between -25  
# and 25, inclusive)  
# POST: returns the encoded string  
def encode(toEncode, key):
```

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5

Commenting Notes

- Well-named parameters make documentation easier
- I'm not strict on the pre/post format.
- Just need to be clear on
 - what the function does (at high level)
 - types of parameters
 - type of the output
- ➔ The caller knows what to pass to the function and if they should assign the output to a variable

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6

Lab 7 Feedback

- Define constants for HEADS and TAILS
- Extra step in game module's flipCoin function

```
HEADS=0
TAILS=1
def flipCoin():
    return random.randint(0,1)
```

Equivalent code
(needs comments)

```
HEADS=0
TAILS=1
def flipCoin():
    flip = random.randint(0,1)
    if flip == HEADS:
        return HEADS
    else:
        return TAILS
```

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7

Gymnastics Scores

- Read in first line of file
 - Can use `readline()` method
- Read in rest of lines
 - Either a for or while loop

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8

Review

- What does x represent and what is its data type for the following code snippets?

```
y = "computers"
z = [1, 2, 5, 7]

for x in y:
    pass
for x in xrange(len(y)):
    pass
for x in z:
    pass
for x in xrange(len(z)):
    pass
```

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9

Rules for Collaboration

- Debugging help
 - 5 minute rule: a friend can only look at your code *to help with debugging* for 5 minutes
 - Owner of code owns keyboard/mouse
- Problem solving discussion
 - No written solutions leave the room
- Acknowledge aid
- Do not give out your password

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10

Deal or No Deal Functionality

- Read in values contained in cases from a file
 - What data type should these numbers be?
- Have user select from remaining cases
 - Make sure choice is valid
- Display remaining cases
 - Print four to a row
- Display remaining amounts on board
 - Left column is smaller amounts

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11