

# Announcements & Logistics

- CS134 Scheduled Final: **Friday, May 17, 9:30 AM**
  - Room: **TCL 123**
- CS134 **Review Session** before Final:
  - Wednesday May 15, **4.30-5.30 pm**
  - Room: Wege (TCL 123)
- Bill Help hours on Thurs May 16: **2.30 - 4.30 pm (TCL 217)**
- **Practice Finals** are posted, along with solutions
  - Attempt thoroughly before checking solution key
  - If you have questions, bring it review session

**Do You Have Any Questions?**

# **CS I 34 (Review) : Jeopardy**

# Rules of the Game

- The team in control of the board chooses a category and point value
  - Higher-point-value questions are more challenging
- ALL teams start working on the solution and when a team is done, a team member raises a hand holding their written solution
- I will begin counting and other teams may raise their solution before the count reaches '5'
  - All answers must be written down on a piece of paper
  - Once a solution is raised, it is final!
- All teams that answered correctly earn points
- The first team to raise their hand that had a correct answer gets control of the board
- All teams that answered incorrectly lose points

# Game Board

Short & Sweet	Predict the Output	oOP	Loops and Recursion	Potpourri
2	2	2	2	2
3	3	3	3	3
5	5	5	5	5
7	7	7	7	7

# Short & Sweet for 2 Points

**This Python type is most appropriate to store unordered values but it does not store duplicates.**

**What is ....?**



# Short & Sweet for 3 Points

This expression from below  
**DOES NOT** give a `TypeError`.

A. `{1: 'o'} + {2: 'h'}`

B. `len(77777)`

C. `3 in range(10)`

What is ....?



# Short & Sweet for 5 Points

This is a one-line Python expression that converts 'a,b,c,d,e,f' to 'abcdef'.

What is ....?



# Short & Sweet for 7 Points

Given a list `L` of single-character digit strings, this is a one-line expression whose value is the integer that corresponds to concatenating the digits in reverse order, e.g.,

- if `L` is the list `['3', '4', '5']`, the code should compute `543`
- if `L` is the list `['5', '3', '7', '2']`, the code should compute `2735`

**What is ....?**





# Predict the Output for 2 Points

This is the output printed  
by the following code:

```
print(print("hello"))
```

What is ....?



# Predict the Output for 3 Points

This is the output printed by the following code:

```
x, y = 3, 8
```

```
def f():
```

```
    x, y = 6, 7
```

```
f()
```

```
print(x, y)
```

**What is ....?**



# Predict the Output for 5 Points

This is the output printed by the following code:

```
t = ['5', '12', '3', '007']  
print(sorted(t, key=int))
```

What is ....?



# Predict the Output for 7 Points

This is the output printed by the following code:

```
d = {1: {2: 3}, 4: {5: 6}}
s = 0
for k1 in d:
    for k2 in d[k1]:
        s += k1 + d[k1][k2]
print(s)
```

**What is ....?**



# **OOP for 2 Points**

**This is the special method called when an instance of a class is created.**

**What is ....?**



# OOP for 3 Points

This is the special expression that is used instead of self when invoking a method of a parent class.

What is ....?



# OOP for 5 Points

This is the attribute of Sample class that is not inherited by any of its subclass.

```
class Sample:  
    def __init__(self, val1, val2, val3):  
        self.a = val1  
        self._b = val2  
        self.__c = val3
```

**What is ....?**



# OOP for 7 Points

This is printed when the following code is run:

```
class Test:
    def __init__(self):
        print(self)

    def __str__(self):
        return "hello"

print(Test())
```

**What is ....?**





# Loops and Recursion for 2 Points

This is the Big O Complexity of the following recursive function.

```
def halves(n):  
    if n > 0:  
        print(n)  
        halves(n//2)
```

**What is ....?**



# Loops and Recursion for 3 Points

This is printed when we run:

```
for i in range(2):  
    for j in range(i):  
        print(i, j)
```

What is ....?



# Loops and Recursion for 5 Points

This shape is drawn by the following recursion:

```
def draw(len, sides):  
    if sides > 0:  
        fd(len); lt(90)  
        draw(len, sides-1)  
  
draw(10, 4)
```

**What is ....?**



# Loops and Recursion for 7 Points

What is the iterative function that is equivalent to this recursive function:

```
def mystery(num_lst):  
    '''Assume num_lst is a list of numbers'''  
    if len(num_lst) < 1:  
        return 0  
    else:  
        return num_lst[0] + mystery(num_lst[1:])
```

**What is ....?**



# Potpourri for 2 Points

This is the name of the criterion for a data type to be a key in a dictionary

What is ....?



# Potpourri for 3 Points

This is the Big O time complexity of an algorithm that compares each number in the list of numbers to every other number in the list (using a nested for loop) to determine if any pair adds up to a given target value.

What is ....?



# Potpourri for 5 Points

This is printed by the following code:

```
def optional(word, num=3):  
    return word * num  
  
if __name__ == "__main__":  
    print(optional("a") + optional("z", 2))
```

**What is ....?**



# Potpourri for 7 Points

This is the value of `nums` after this code is run:

```
nums = [1, 2, 3]
```

```
new = nums
```

```
new = new.append(4)
```

```
nums.append(new)
```

**What is ....?**

