

Announcements & Logistics

- CS134 Scheduled Final: **Wednesday, Dec 11, 9:30 AM**
 - Room: **Wachenheim B11 / Bronfman Auditorium**
- CS134 **Review Session** before Final:
 - **Monday, December 9, time 10am**
 - Room: **TPL 203**
 - **SNACKS!**

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
- We 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(es).

```
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

For a data type to be used as a key in a dictionary, the data type must have this property.

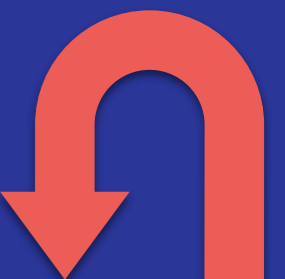
What is?



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?

