

9/18 CSP(L) Notes

Logistics

- **Location:** Enter from west in Macbride Hall
- **Office Hours:** Friday for exam
- **Supplemental Instructor Leader:** Nolan, basement IMU, academic resource center

Key Concepts

- **Symmetry:** ^ is symmetric
- **Review:** All operators, set instructors
- **Preparation:** Print out cheat sheet

Code Examples

1. List Assignment
2. Python

```
X[2:8] = [1]*2
```

```
x
```

```
[0,0,1,1,0,0]
```

- 3.
4. AI-generated code. Review and use carefully. [More info on FAQ.](#)
5. Print Function
6. Python

print() evaluates arguments and formats their resulting values for output onto the screen, like assignment, it returns no value.

```
>>> x, y = (3, 4)
```

```
>>> print(x*2, y, 'this is a test')
```

```
6 4 this is a test
```

```
>>> 3, 4*2
```

```
(3, 8)
```

```
>>> print('foo')
```

```
Foo
```

```
>>> print('foo'), 4*2
```

```
foo
```

```
(None, 8)
```

- 7.
8. AI-generated code. Review and use carefully. [More info on FAQ.](#)
9. Escape Characters

10. Python

'\t' and '\n'

```
>>> 'this\t this'
```

11.

12. AI-generated code. Review and use carefully. [More info on FAQ.](#)

13. Function Definitions

14. Python

```
def foo(x=0, y=0):  
    print('x is' + str(x) + ', y is' + str(y))  
    return x + y
```

```
foo(3)  
# Output: x is 3, y is 0  
# 3
```

```
foo(y=7)  
# Output: x is 0, y is 7  
# 7
```

15.

16. AI-generated code. Review and use carefully. [More info on FAQ.](#)

17. Star Arguments

18. Python

```
def poo(x, y, *args):  
    return x, y, args
```

```
poo(3, 4)  
# Output: (3, 4, ())
```

```
poo(3, 4, 5, 6)  
# Output: (3, 4, (5, 6))
```

```
poo(*range(10))  
19. # Output: (0, 1, (2, 3, 4, 5, 6, 7, 8, 9))
```