

A 8 POINTS

Full Name _____

Section & Subsection _____

Roll # _____

1. (1/2 point) What is printed?

```
xs = []
ys = [xs]
ys[0].append(1)
print(xs, ys)
```

A. Error B. [1] [[1]] C. [1] [1] D. [] [[1]]

2. (1/2 point) What is [] [0]?

A. [[]] B. [] C. Error D. 0

3. (1/2 point) What is printed?

```
xs = [].extend([1, 2])
print(xs)
```

A. [1, 2] B. None C. [[1, 2]] D. Error

4. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x <= y:
    x = x + y
else:
    x = x - y
print(x, y)
```

A. 5 3 B. Error C. 2 3 D. 3 2

5. (1/2 point) What is {1, 2, 3} == {2, 1, 3}?

A. False B. None C. True D. Error

6. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x > y:
    x = x - y
print(x, y)
```

A. 2 3 B. Error C. 5 3 D. 3 2

7. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
elif x > y:
    x = x - y
print(x, y)
```

A. 2 3 B. 3 2 C. 5 3 D. Error

8. (1/2 point) What is [1, 2, 3] == [2, 1, 3]?

A. [1, 2, 3] B. Error C. True D. False

9. (1/2 point) What is printed?

```
x = 0
for y in range(1, 10):
    if y % 2 == 0:
        x = x + y
    else:
        x = x - y
print(x, y)
```

A. Error B. -5 9 C. 45 9 D. 5 3

10. (1/2 point) What is printed?

```
xs = list(range(11, 0, -1))
ys = map(str, xs)
zs = "".join(ys)
print(int(zs) % 2)
```

A. 0 B. None C. Error D. 1

11. (1/2 point) What is printed?

```
x, y = 0, 1
while x < 100:
    x, y = y, x + y
print(x)
```

A. 233 B. 100 C. 89 D. 101 E. 144 F. 143

12. (1/2 point) What is printed?

```
x = 4
def f(y):
    return x * x + 3
print(f(0) + f(1) + f(2))
```

A. 9 B. 7 C. 14 D. 57

13. (1/2 point) What is printed assuming succ(n) return n+1?

```
xs = list(range(100))
ys = map(succ, xs)
print(sum(ys) + sum(ys))
```

A. 0 B. 5050 C. Error D. 10100

14. (1/2 point) What is sum(range(1, 20))?

A. 210 B. 190 C. 90 D. Error E. 45

15. (1/2 point) What is printed?

```
def f(x):
    return x + x
def g(x):
    return x * x
print(f(g(3)))
```

A. Error B. 12 C. 9 D. 36 E. 18

16. (1/2 point) What is "hello world"[20:-3:-2]?

A. "d" B. "dlr" C. "rld" D. None E. Error

B 8 POINTS

Full Name _____

Section & Subsection _____

Roll # _____

1. (1/2 point) What is printed?

```
x = 4
def f(y):
    return x * x + 3
print(f(0) + f(1) + f(2))
```

A. 57 B. 14 C. 9 D. 7

2. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x > y:
    x = x - y
print(x, y)
```

A. 3 2 B. Error C. 5 3 D. 2 3

3. (1/2 point) What is {1, 2, 3} == {2, 1, 3}?

A. False B. True C. None D. Error

4. (1/2 point) What is printed?

```
x = 0
for y in range(1, 10):
    if y % 2 == 0:
        x = x + y
    else:
        x = x - y
print(x, y)
```

A. -5 9 B. 5 3 C. 45 9 D. Error

5. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x <= y:
    x = x + y
else:
    x = x - y
print(x, y)
```

A. 5 3 B. 3 2 C. Error D. 2 3

6. (1/2 point) What is printed?

```
x, y = 0, 1
while x < 100:
    x, y = y, x + y
print(x)
```

A. 144 B. 101 C. 233 D. 143 E. 89 F. 100

7. (1/2 point) What is "hello world"[20:-3:-2]?

A. "rld" B. "d" C. Error D. "dlr" E. None

8. (1/2 point) What is printed?

```
def f(x):
    return x + x
def g(x):
    return x * x
print(f(g(3)))
```

A. 36 B. 18 C. 12 D. 9 E. Error

9. (1/2 point) What is [1, 2, 3] == [2, 1, 3]?

A. [1, 2, 3] B. Error C. False D. True

10. (1/2 point) What is printed assuming succ(n) return n+1?

```
xs = list(range(100))
ys = map(succ, xs)
print(sum(ys) + sum(ys))
```

A. 5050 B. 0 C. Error D. 10100

11. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
elif x > y:
    x = x - y
print(x, y)
```

A. 2 3 B. 5 3 C. 3 2 D. Error

12. (1/2 point) What is printed?

```
xs = list(range(11, 0, -1))
ys = map(str, xs)
zs = "".join(ys)
print(int(zs) % 2)
```

A. None B. Error C. 0 D. 1

13. (1/2 point) What is [] [0]?

A. 0 B. [] C. Error D. [[]]

14. (1/2 point) What is printed?

```
xs = [].extend([1, 2])
print(xs)
```

A. None B. Error C. [1, 2] D. [[1, 2]]

15. (1/2 point) What is printed?

```
xs = []
ys = [xs]
ys[0].append(1)
print(xs, ys)
```

A. Error B. [1] [[1]] C. [] [[1]] D. [1] [1]

16. (1/2 point) What is sum(range(1, 20))?

A. Error B. 45 C. 90 D. 190 E. 210

C 8 POINTS

Full Name _____

Section & Subsection _____

Roll # _____

1. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x <= y:
    x = x + y
else:
    x = x - y
print(x, y)
```

A. 2 3 B. Error C. 5 3 D. 3 2

2. (1/2 point) What is [] [0]?

A. [] B. Error C. 0 D. [[]]

3. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
elif x > y:
    x = x - y
print(x, y)
```

A. 2 3 B. 3 2 C. Error D. 5 3

4. (1/2 point) What is printed?

```
x = 0
for y in range(1, 10):
    if y % 2 == 0:
        x = x + y
    else:
        x = x - y
print(x, y)
```

A. Error B. -5 9 C. 5 3 D. 45 9

5. (1/2 point) What is printed?

```
xs = list(range(11, 0, -1))
ys = map(str, xs)
zs = "".join(ys)
print(int(zs) % 2)
```

A. Error B. 0 C. None D. 1

6. (1/2 point) What is printed?

```
xs = [].extend([1, 2])
print(xs)
```

A. [1, 2] B. [[1, 2]] C. Error D. None

7. (1/2 point) What is {1, 2, 3} == {2, 1, 3}?

A. None B. Error C. False D. True

8. (1/2 point) What is printed?

```
xs = []
ys = [xs]
ys[0].append(1)
print(xs, ys)
```

A. [1] [1] B. [] [[1]] C. [1] [[1]] D. Error

9. (1/2 point) What is "hello world"[20:-3:-2]?

A. "d" B. "dlr" C. None D. Error E. "rld"

10. (1/2 point) What is sum(range(1, 20))?

A. 210 B. Error C. 190 D. 90 E. 45

11. (1/2 point) What is [1, 2, 3] == [2, 1, 3]?

A. False B. True C. Error D. [1, 2, 3]

12. (1/2 point) What is printed?

```
x, y = 0, 1
while x < 100:
    x, y = y, x + y
print(x)
```

A. 100 B. 233 C. 143 D. 144 E. 101 F. 89

13. (1/2 point) What is printed assuming succ(n) return n+1?

```
xs = list(range(100))
ys = map(succ, xs)
print(sum(ys) + sum(ys))
```

A. Error B. 0 C. 5050 D. 10100

14. (1/2 point) What is printed?

```
x = 4
def f(y):
    return x * x + 3
print(f(0) + f(1) + f(2))
```

A. 9 B. 14 C. 7 D. 57

15. (1/2 point) What is printed?

```
def f(x):
    return x + x
def g(x):
    return x * x
print(f(g(3)))
```

A. 36 B. 9 C. 12 D. Error E. 18

16. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x > y:
    x = x - y
print(x, y)
```

A. 5 3 B. 2 3 C. Error D. 3 2

D 8 POINTS

Full Name _____

Section & Subsection _____

Roll # _____

1. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x <= y:
    x = x + y
else:
    x = x - y
print(x, y)
```

A. 5 3 B. 3 2 C. Error D. 2 3

2. (1/2 point) What is printed?

```
x = 4
def f(y):
    return x * x + 3
print(f(0) + f(1) + f(2))
```

A. 57 B. 7 C. 14 D. 9

3. (1/2 point) What is printed?

```
xs = [].extend([1, 2])
print(xs)
```

A. Error B. None C. [1, 2] D. [[1, 2]]

4. (1/2 point) What is printed?

```
x, y = 0, 1
while x < 100:
    x, y = y, x + y
print(x)
```

A. 233 B. 100 C. 143 D. 101 E. 89 F. 144

5. (1/2 point) What is [1, 2, 3] == [2, 1, 3]?

A. False B. Error C. True D. [1, 2, 3]

6. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
elif x > y:
    x = x - y
print(x, y)
```

A. 3 2 B. 2 3 C. Error D. 5 3

7. (1/2 point) What is printed?

```
x = 0
for y in range(1, 10):
    if y % 2 == 0:
        x = x + y
    else:
        x = x - y
print(x, y)
```

A. 5 3 B. 45 9 C. Error D. -5 9

8. (1/2 point) What is sum(range(1, 20))?

A. 190 B. Error C. 210 D. 90 E. 45

9. (1/2 point) What is printed assuming succ(n) return n+1?

```
xs = list(range(100))
ys = map(succ, xs)
print(sum(ys) + sum(ys))
```

A. 10100 B. 5050 C. 0 D. Error

10. (1/2 point) What is printed?

```
xs = []
ys = [xs]
ys[0].append(1)
print(xs, ys)
```

A. [1] [[1]] B. Error C. [] [[1]] D. [1] [1]

11. (1/2 point) What is printed?

```
xs = list(range(11, 0, -1))
ys = map(str, xs)
zs = "".join(ys)
print(int(zs) % 2)
```

A. 1 B. 0 C. None D. Error

12. (1/2 point) What is "hello world"[20:-3:-2]?

A. Error B. "dlr" C. None D. "rld" E. "d"

13. (1/2 point) What is printed?

```
def f(x):
    return x + x
def g(x):
    return x * x
print(f(g(3)))
```

A. 36 B. 18 C. 9 D. 12 E. Error

14. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x > y:
    x = x - y
print(x, y)
```

A. Error B. 2 3 C. 3 2 D. 5 3

15. (1/2 point) What is {1, 2, 3} == {2, 1, 3}?

A. Error B. True C. None D. False

16. (1/2 point) What is [][0]?

A. [[]] B. Error C. [] D. 0

E 8 POINTS

Full Name _____

Section & Subsection _____

Roll # _____

1. (1/2 point) What is "hello world"[20:-3:-2]?
A. None B. "rld" C. "dlr" D. Error E. "d"

2. (1/2 point) What is printed?

```
xs = list(range(11, 0, -1))
ys = map(str, xs)
zs = "".join(ys)
print(int(zs) % 2)
```

A. None B. 1 C. Error D. 0

3. (1/2 point) What is printed?

```
x = 4
def f(y):
    return x * x + 3
print(f(0) + f(1) + f(2))
```

A. 57 B. 14 C. 9 D. 7

4. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x > y:
    x = x - y
print(x, y)
```

A. 2 3 B. Error C. 3 2 D. 5 3

5. (1/2 point) What is {1, 2, 3} == {2, 1, 3}?

A. False B. Error C. None D. True

6. (1/2 point) What is printed?

```
xs = []
ys = [xs]
ys[0].append(1)
print(xs, ys)
```

A. [1] [1] B. [1] [[1]] C. [] [[1]] D. Error

7. (1/2 point) What is printed?

```
x, y = 0, 1
while x < 100:
    x, y = y, x + y
print(x)
```

A. 101 B. 233 C. 100 D. 143 E. 89 F. 144

8. (1/2 point) What is printed?

```
def f(x):
    return x + x
def g(x):
    return x * x
print(f(g(3)))
```

A. 9 B. 18 C. Error D. 36 E. 12

9. (1/2 point) What is printed assuming succ(n) return n+1?

```
xs = list(range(100))
ys = map(succ, xs)
print(sum(ys) + sum(xs))
```

A. 10100 B. 0 C. 5050 D. Error

10. (1/2 point) What is sum(range(1, 20))?
A. 45 B. 90 C. 210 D. Error E. 190

11. (1/2 point) What is [][0]?

A. 0 B. Error C. [[]] D. []

12. (1/2 point) What is printed?

```
x = 0
for y in range(1, 10):
    if y % 2 == 0:
        x = x + y
    else:
        x = x - y
print(x, y)
```

A. Error B. 5 3 C. -5 9 D. 45 9

13. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
elif x > y:
    x = x - y
print(x, y)
```

A. 3 2 B. 2 3 C. 5 3 D. Error

14. (1/2 point) What is printed?

```
xs = [].extend([1, 2])
print(xs)
```

A. [[1, 2]] B. [1, 2] C. None D. Error

15. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x <= y:
    x = x + y
else:
    x = x - y
print(x, y)
```

A. 3 2 B. 5 3 C. 2 3 D. Error

16. (1/2 point) What is [1, 2, 3] == [2, 1, 3]?

A. False B. True C. [1, 2, 3] D. Error

F 8 POINTS

Full Name _____

Section & Subsection _____

Roll # _____

1. (1/2 point) What is printed?

```
def f(x):
    return x + x
def g(x):
    return x * x
print(f(g(3)))
```

A. Error B. 12 C. 36 D. 18 E. 9

2. (1/2 point) What is
- `[1, 2, 3] == [2, 1, 3]`
- ?

A. Error B. True C. False D. `[1, 2, 3]`

3. (1/2 point) What is printed assuming
- `succ(n)`
- return
- `n+1`
- ?

```
xs = list(range(100))
ys = map(succ, xs)
print(sum(ys) + sum(ys))
```

A. 10100 B. Error C. 0 D. 5050

4. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
elif x > y:
    x = x - y
print(x, y)
```

A. 3 2 B. 2 3 C. Error D. 5 3

5. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x > y:
    x = x - y
print(x, y)
```

A. 5 3 B. 2 3 C. 3 2 D. Error

6. (1/2 point) What is printed?

```
x = 0
for y in range(1, 10):
    if y % 2 == 0:
        x = x + y
    else:
        x = x - y
print(x, y)
```

A. 45 9 B. -5 9 C. Error D. 5 3

7. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x <= y:
    x = x + y
else:
    x = x - y
print(x, y)
```

A. 3 2 B. 5 3 C. Error D. 2 3

8. (1/2 point) What is printed?

```
xs = [].extend([1, 2])
print(xs)
```

A. None B. `[1, 2]` C. Error D. `[[1, 2]]`

9. (1/2 point) What is
- `{1, 2, 3} == {2, 1, 3}`
- ?

A. False B. Error C. None D. True

10. (1/2 point) What is printed?

```
x, y = 0, 1
while x < 100:
    x, y = y, x + y
print(x)
```

A. 89 B. 100 C. 143 D. 233 E. 101 F. 144

11. (1/2 point) What is printed?

```
xs = []
ys = [xs]
ys[0].append(1)
print(xs, ys)
```

A. `[1] [[1]]` B. `[1] [1]` C. `[] [[1]]` D. Error

12. (1/2 point) What is printed?

```
x = 4
def f(y):
    return x * x + 3
print(f(0) + f(1) + f(2))
```

A. 57 B. 7 C. 14 D. 9

13. (1/2 point) What is
- `[] [0]`
- ?

A. `[]` B. Error C. `[[[]]` D. 0

14. (1/2 point) What is printed?

```
xs = list(range(11, 0, -1))
ys = map(str, xs)
zs = "".join(ys)
print(int(zs) % 2)
```

A. Error B. 0 C. 1 D. None

15. (1/2 point) What is
- `sum(range(1, 20))`
- ?

A. 210 B. 45 C. 190 D. 90 E. Error

16. (1/2 point) What is
- `"hello world"[20:-3:-2]`
- ?

A. Error B. None C. "rld" D. "dlr" E. "d"

G 8 POINTS

Full Name _____

Section & Subsection _____

Roll # _____

1. (1/2 point) What is [] [0]?

A. Error B. [[]] C. 0 D. []

2. (1/2 point) What is printed?

```
def f(x):
    return x + x
def g(x):
    return x * x
print(f(g(3)))
```

A. 36 B. 9 C. Error D. 12 E. 18

3. (1/2 point) What is printed?

```
xs = [].extend([1, 2])
print(xs)
```

A. Error B. [1, 2] C. None D. [[1, 2]]

4. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x > y:
    x = x - y
print(x, y)
```

A. 5 3 B. 3 2 C. 2 3 D. Error

5. (1/2 point) What is printed?

```
xs = []
ys = [xs]
ys[0].append(1)
print(xs, ys)
```

A. Error B. [] [[1]] C. [1] [[1]] D. [1] [1]

6. (1/2 point) What is sum(range(1, 20))?

A. 210 B. 90 C. 190 D. 45 E. Error

7. (1/2 point) What is printed?

```
x, y = 0, 1
while x < 100:
    x, y = y, x + y
print(x)
```

A. 144 B. 101 C. 89 D. 143 E. 100 F. 233

8. (1/2 point) What is printed?

```
x = 0
for y in range(1, 10):
    if y % 2 == 0:
        x = x + y
    else:
        x = x - y
print(x, y)
```

A. -5 9 B. Error C. 45 9 D. 5 3

9. (1/2 point) What is printed?

```
x = 4
def f(y):
    return x * x + 3
print(f(0) + f(1) + f(2))
```

A. 14 B. 7 C. 9 D. 57

10. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x <= y:
    x = x + y
else:
    x = x - y
print(x, y)
```

A. 3 2 B. 5 3 C. Error D. 2 3

11. (1/2 point) What is printed assuming succ(n) return n+1?

```
xs = list(range(100))
ys = map(succ, xs)
print(sum(ys) + sum(ys))
```

A. Error B. 10100 C. 5050 D. 0

12. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
elif x > y:
    x = x - y
print(x, y)
```

A. 5 3 B. 3 2 C. 2 3 D. Error

13. (1/2 point) What is [1, 2, 3] == [2, 1, 3]?

A. Error B. False C. True D. [1, 2, 3]

14. (1/2 point) What is {1, 2, 3} == {2, 1, 3}?

A. False B. None C. True D. Error

15. (1/2 point) What is printed?

```
xs = list(range(11, 0, -1))
ys = map(str, xs)
zs = "".join(ys)
print(int(zs) % 2)
```

A. 1 B. 0 C. None D. Error

16. (1/2 point) What is "hello world"[20:-3:-2]?

A. None B. "dlr" C. "rld" D. "d" E. Error

H 8 POINTS

Full Name _____

Section & Subsection _____

Roll # _____

1. (1/2 point) What is [] [0]?

A. [[]] B. 0 C. [] D. Error

2. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
elif x > y:
    x = x - y
print(x, y)
```

A. 2 3 B. 5 3 C. 3 2 D. Error

3. (1/2 point) What is printed?

```
x = 4
def f(y):
    return x * x + 3
print(f(0) + f(1) + f(2))
```

A. 9 B. 57 C. 7 D. 14

4. (1/2 point) What is `sum(range(1, 20))`?

A. Error B. 190 C. 45 D. 210 E. 90

5. (1/2 point) What is printed?

```
xs = []
ys = [xs]
ys[0].append(1)
print(xs, ys)
```

A. [1] [[1]] B. Error C. [1] [1] D. [] [[1]]

6. (1/2 point) What is printed?

```
xs = list(range(11, 0, -1))
ys = map(str, xs)
zs = "".join(ys)
print(int(zs) % 2)
```

A. 0 B. Error C. None D. 1

7. (1/2 point) What is printed?

```
x, y = 0, 1
while x < 100:
    x, y = y, x + y
print(x)
```

A. 101 B. 144 C. 89 D. 233 E. 143 F. 100

8. (1/2 point) What is `"hello world"[20:-3:-2]`?

A. Error B. None C. "dlr" D. "d" E. "rld"

9. (1/2 point) What is printed assuming `succ(n)` return `n+1`?

```
xs = list(range(100))
ys = map(succ, xs)
print(sum(ys) + sum(ys))
```

A. 5050 B. 10100 C. Error D. 0

10. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x > y:
    x = x - y
print(x, y)
```

A. 3 2 B. 5 3 C. 2 3 D. Error

11. (1/2 point) What is printed?

```
xs = [].extend([1, 2])
print(xs)
```

A. Error B. None C. [1, 2] D. [[1, 2]]

12. (1/2 point) What is printed?

```
def f(x):
    return x + x
def g(x):
    return x * x
print(f(g(3)))
```

A. 18 B. 12 C. 9 D. Error E. 36

13. (1/2 point) What is `[1, 2, 3] == [2, 1, 3]`?

A. False B. True C. [1, 2, 3] D. Error

14. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x <= y:
    x = x + y
else:
    x = x - y
print(x, y)
```

A. 2 3 B. 3 2 C. Error D. 5 3

15. (1/2 point) What is `{1, 2, 3} == {2, 1, 3}`?

A. True B. False C. Error D. None

16. (1/2 point) What is printed?

```
x = 0
for y in range(1, 10):
    if y % 2 == 0:
        x = x + y
    else:
        x = x - y
print(x, y)
```

A. 5 3 B. -5 9 C. 45 9 D. Error

I 8 POINTS

Full Name _____

Section & Subsection _____

Roll # _____

1. (1/2 point) What is printed assuming
- `succ(n)`
- return
- `n+1`
- ?

```
xs = list(range(100))
ys = map(succ, xs)
print(sum(ys) + sum(ys))
```

A. 5050 B. Error C. 10100 D. 0

2. (1/2 point) What is
- `[1, 2, 3] == [2, 1, 3]`
- ?

A. `[1, 2, 3]` B. False C. True D. Error

3. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x > y:
    x = x - y
print(x, y)
```

A. 3 2 B. 5 3 C. Error D. 2 3

4. (1/2 point) What is printed?

```
xs = []
ys = [xs]
ys[0].append(1)
print(xs, ys)
```

A. `[1] [[1]]` B. `[1] [1]` C. Error D. `[] [[1]]`

5. (1/2 point) What is
- `{1, 2, 3} == {2, 1, 3}`
- ?

A. False B. True C. None D. Error

6. (1/2 point) What is
- `[] [0]`
- ?

A. Error B. `[[]]` C. `[]` D. 0

7. (1/2 point) What is printed?

```
x = 0
for y in range(1, 10):
    if y % 2 == 0:
        x = x + y
    else:
        x = x - y
print(x, y)
```

A. 45 9 B. 5 3 C. -5 9 D. Error

8. (1/2 point) What is printed?

```
x, y = 0, 1
while x < 100:
    x, y = y, x + y
print(x)
```

A. 233 B. 100 C. 144 D. 143 E. 89 F. 101

9. (1/2 point) What is printed?

```
xs = [].extend([1, 2])
print(xs)
```

A. `[1, 2]` B. Error C. None D. `[[1, 2]]`

10. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x <= y:
    x = x + y
else:
    x = x - y
print(x, y)
```

A. Error B. 2 3 C. 5 3 D. 3 2

11. (1/2 point) What is
- `sum(range(1, 20))`
- ?

A. Error B. 210 C. 45 D. 190 E. 90

12. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
elif x > y:
    x = x - y
print(x, y)
```

A. 2 3 B. 3 2 C. Error D. 5 3

13. (1/2 point) What is printed?

```
xs = list(range(11, 0, -1))
ys = map(str, xs)
zs = "".join(ys)
print(int(zs) % 2)
```

A. 0 B. Error C. 1 D. None

14. (1/2 point) What is printed?

```
def f(x):
    return x + x
def g(x):
    return x * x
print(f(g(3)))
```

A. 9 B. 12 C. 18 D. 36 E. Error

15. (1/2 point) What is
- `"hello world"[20:-3:-2]`
- ?

A. "d" B. Error C. "dlr" D. None E. "rld"

16. (1/2 point) What is printed?

```
x = 4
def f(y):
    return x * x + 3
print(f(0) + f(1) + f(2))
```

A. 7 B. 57 C. 14 D. 9

J **8 POINTS**

Full Name _____

Section & Subsection _____

Roll # _____

1. (1/2 point) What is printed?

```
xs = []
ys = [xs]
ys[0].append(1)
print(xs, ys)
```

A. [1] [1] B. Error C. [] [[1]] D. [1] [[1]]

2. (1/2 point) What is
- `sum(range(1, 20))`
- ?

A. 190 B. 210 C. Error D. 45 E. 90

3. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x > y:
    x = x - y
print(x, y)
```

A. 5 3 B. 3 2 C. Error D. 2 3

4. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
elif x > y:
    x = x - y
print(x, y)
```

A. 3 2 B. Error C. 2 3 D. 5 3

5. (1/2 point) What is
- `[] [0]`
- ?

A. [[]] B. 0 C. [] D. Error

6. (1/2 point) What is printed?

```
def f(x):
    return x + x
def g(x):
    return x * x
print(f(g(3)))
```

A. Error B. 18 C. 9 D. 36 E. 12

7. (1/2 point) What is printed?

```
x = 0
for y in range(1, 10):
    if y % 2 == 0:
        x = x + y
    else:
        x = x - y
print(x, y)
```

A. 5 3 B. Error C. -5 9 D. 45 9

8. (1/2 point) What is printed?

```
x = 4
def f(y):
    return x * x + 3
print(f(0) + f(1) + f(2))
```

A. 57 B. 7 C. 14 D. 9

9. (1/2 point) What is "hello world"[20:-3:-2]?

A. Error B. "d" C. "dlr" D. "rld" E. None

10. (1/2 point) What is printed assuming
- `succ(n)`
- return
- `n+1`
- ?

```
xs = list(range(100))
ys = map(succ, xs)
print(sum(ys) + sum(ys))
```

A. 0 B. Error C. 5050 D. 10100

11. (1/2 point) What is printed?

```
xs = [].extend([1, 2])
print(xs)
```

A. None B. [[1, 2]] C. Error D. [1, 2]

12. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x <= y:
    x = x + y
else:
    x = x - y
print(x, y)
```

A. 5 3 B. 3 2 C. Error D. 2 3

13. (1/2 point) What is printed?

```
xs = list(range(11, 0, -1))
ys = map(str, xs)
zs = "".join(ys)
print(int(zs) % 2)
```

A. Error B. 1 C. None D. 0

14. (1/2 point) What is
- `[1, 2, 3] == [2, 1, 3]`
- ?

A. False B. Error C. True D. [1, 2, 3]

15. (1/2 point) What is printed?

```
x, y = 0, 1
while x < 100:
    x, y = y, x + y
print(x)
```

A. 144 B. 100 C. 101 D. 143 E. 89 F. 233

16. (1/2 point) What is
- `{1, 2, 3} == {2, 1, 3}`
- ?

A. None B. False C. True D. Error

K **8 POINTS**

Full Name _____

Section & Subsection _____

Roll # _____

1. (1/2 point) What is printed?

```
x = 4
def f(y):
    return x * x + 3
print(f(0) + f(1) + f(2))
```

A. 7 B. 14 C. 9 D. 57

2. (1/2 point) What is
- `[1, 2, 3] == [2, 1, 3]`
- ?

A. False B. `[1, 2, 3]` C. Error D. True

3. (1/2 point) What is
- `[] [0]`
- ?

A. `[]` B. Error C. `[[]]` D. 0

4. (1/2 point) What is printed?

```
x, y = 0, 1
while x < 100:
    x, y = y, x + y
print(x)
```

A. 144 B. 89 C. 101 D. 233 E. 143 F. 100

5. (1/2 point) What is printed?

```
x = 0
for y in range(1, 10):
    if y % 2 == 0:
        x = x + y
    else:
        x = x - y
print(x, y)
```

A. -5 9 B. 45 9 C. Error D. 5 3

6. (1/2 point) What is printed assuming
- `succ(n)`
- return
- `n+1`
- ?

```
xs = list(range(100))
ys = map(succ, xs)
print(sum(ys) + sum(xs))
```

A. Error B. 5050 C. 10100 D. 0

7. (1/2 point) What is
- `sum(range(1, 20))`
- ?

A. Error B. 190 C. 90 D. 45 E. 210

8. (1/2 point) What is printed?

```
xs = [].extend([1, 2])
print(xs)
```

A. None B. `[[1, 2]]` C. Error D. `[1, 2]`

9. (1/2 point) What is printed?

```
xs = list(range(11, 0, -1))
ys = map(str, xs)
zs = "".join(ys)
print(int(zs) % 2)
```

A. 1 B. 0 C. None D. Error

10. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x <= y:
    x = x + y
else:
    x = x - y
print(x, y)
```

A. Error B. 5 3 C. 2 3 D. 3 2

11. (1/2 point) What is printed?

```
def f(x):
    return x + x
def g(x):
    return x * x
print(f(g(3)))
```

A. 9 B. 18 C. 12 D. 36 E. Error

12. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x > y:
    x = x - y
print(x, y)
```

A. Error B. 3 2 C. 2 3 D. 5 3

13. (1/2 point) What is
- `"hello world"[20:-3:-2]`
- ?

A. "dlr" B. None C. "d" D. "rld" E. Error

14. (1/2 point) What is printed?

```
xs = []
ys = [xs]
ys[0].append(1)
print(xs, ys)
```

A. `[1] [[1]]` B. `[] [[1]]` C. `[1] [1]` D. Error

15. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
elif x > y:
    x = x - y
print(x, y)
```

A. 5 3 B. 2 3 C. Error D. 3 2

16. (1/2 point) What is
- `{1, 2, 3} == {2, 1, 3}`
- ?

A. True B. False C. Error D. None

L **8 POINTS**

Full Name _____

Section & Subsection _____

Roll # _____

1. (1/2 point) What is printed?

```
xs = []
ys = [xs]
ys[0].append(1)
print(xs, ys)
```

A. [1] [[1]] B. [] [[1]] C. Error D. [1] [1]

2. (1/2 point) What is "hello world"[20:-3:-2]?

A. Error B. "d" C. None D. "rld" E. "dlr"

3. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x <= y:
    x = x + y
else:
    x = x - y
print(x, y)
```

A. 3 2 B. 5 3 C. 2 3 D. Error

4. (1/2 point) What is [] [0]?

A. [[]] B. 0 C. Error D. []

5. (1/2 point) What is printed?

```
x = 0
for y in range(1, 10):
    if y % 2 == 0:
        x = x + y
    else:
        x = x - y
print(x, y)
```

A. 5 3 B. Error C. -5 9 D. 45 9

6. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x > y:
    x = x - y
print(x, y)
```

A. 3 2 B. Error C. 5 3 D. 2 3

7. (1/2 point) What is
- `sum(range(1, 20))`
- ?

A. 210 B. 190 C. 90 D. Error E. 45

8. (1/2 point) What is printed?

```
xs = [].extend([1, 2])
print(xs)
```

A. None B. [[1, 2]] C. [1, 2] D. Error

9. (1/2 point) What is
- `{1, 2, 3} == {2, 1, 3}`
- ?

A. True B. False C. Error D. None

10. (1/2 point) What is printed?

```
xs = list(range(11, 0, -1))
ys = map(str, xs)
zs = "".join(ys)
print(int(zs) % 2)
```

A. None B. 0 C. 1 D. Error

11. (1/2 point) What is printed?

```
x = 4
def f(y):
    return x * x + 3
print(f(0) + f(1) + f(2))
```

A. 14 B. 7 C. 9 D. 57

12. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
elif x > y:
    x = x - y
print(x, y)
```

A. Error B. 2 3 C. 3 2 D. 5 3

13. (1/2 point) What is printed?

```
x, y = 0, 1
while x < 100:
    x, y = y, x + y
print(x)
```

A. 144 B. 233 C. 100 D. 89 E. 143 F. 101

14. (1/2 point) What is
- `[1, 2, 3] == [2, 1, 3]`
- ?

A. False B. Error C. [1, 2, 3] D. True

15. (1/2 point) What is printed?

```
def f(x):
    return x + x
def g(x):
    return x * x
print(f(g(3)))
```

A. 18 B. Error C. 9 D. 36 E. 12

16. (1/2 point) What is printed assuming
- `succ(n)`
- return
- `n+1`
- ?

```
xs = list(range(100))
ys = map(succ, xs)
print(sum(ys) + sum(ys))
```

A. 5050 B. 0 C. 10100 D. Error

M 8 POINTS

Full Name _____

Section & Subsection _____

Roll # _____

1. (1/2 point) What is `[1, 2, 3] == [2, 1, 3]`?
A. False B. `[1, 2, 3]` C. Error D. True

2. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x > y:
    x = x - y
print(x, y)
```

A. Error B. 3 2 C. 2 3 D. 5 3

3. (1/2 point) What is `"hello world"[20:-3:-2]`?

A. "d" B. Error C. "rld" D. None E. "dlr"

4. (1/2 point) What is printed?

```
xs = []
ys = [xs]
ys[0].append(1)
print(xs, ys)
```

A. Error B. `[1] [1]` C. `[] [[1]]` D. `[1] [[1]]`

5. (1/2 point) What is printed assuming `succ(n)` return `n+1`?

```
xs = list(range(100))
ys = map(succ, xs)
print(sum(ys) + sum(ys))
```

A. 0 B. 5050 C. Error D. 10100

6. (1/2 point) What is printed?

```
x = 4
def f(y):
    return x * x + 3
print(f(0) + f(1) + f(2))
```

A. 7 B. 57 C. 14 D. 9

7. (1/2 point) What is printed?

```
x = 0
for y in range(1, 10):
    if y % 2 == 0:
        x = x + y
    else:
        x = x - y
print(x, y)
```

A. Error B. 5 3 C. -5 9 D. 45 9

8. (1/2 point) What is `{1, 2, 3} == {2, 1, 3}`?

A. False B. Error C. True D. None

9. (1/2 point) What is `[] [0]`?

A. 0 B. `[]` C. `[[]]` D. Error

10. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
elif x > y:
    x = x - y
print(x, y)
```

A. 5 3 B. Error C. 3 2 D. 2 3

11. (1/2 point) What is printed?

```
xs = list(range(11, 0, -1))
ys = map(str, xs)
zs = "".join(ys)
print(int(zs) % 2)
```

A. Error B. None C. 1 D. 0

12. (1/2 point) What is `sum(range(1, 20))`?

A. Error B. 190 C. 90 D. 210 E. 45

13. (1/2 point) What is printed?

```
x, y = 2, 3
if x <= y:
    x = x + y
if x <= y:
    x = x + y
else:
    x = x - y
print(x, y)
```

A. 2 3 B. 5 3 C. 3 2 D. Error

14. (1/2 point) What is printed?

```
x, y = 0, 1
while x < 100:
    x, y = y, x + y
print(x)
```

A. 89 B. 144 C. 101 D. 143 E. 233 F. 100

15. (1/2 point) What is printed?

```
xs = [].extend([1, 2])
print(xs)
```

A. Error B. `[[1, 2]]` C. None D. `[1, 2]`

16. (1/2 point) What is printed?

```
def f(x):
    return x + x
def g(x):
    return x * x
print(f(g(3)))
```

A. 12 B. 36 C. Error D. 18 E. 9

N 8 POINTS

Full Name _____

Section & Subsection _____

Roll # _____

1. (1/2 point) What is printed?

```
xs = []  
ys = [xs]  
ys[0].append(1)  
print(xs, ys)
```

A. [1] [1] B. [1] [[1]] C. Error D. [] [[1]]

2. (1/2 point) What is printed?

```
def f(x):  
    return x + x  
def g(x):  
    return x * x  
print(f(g(3)))
```

A. Error B. 36 C. 12 D. 18 E. 9

3. (1/2 point) What is {1, 2, 3} == {2, 1, 3}?

A. True B. False C. Error D. None

4. (1/2 point) What is "hello world"[20:-3:-2]?

A. "d" B. "dlr" C. None D. Error E. "rld"

5. (1/2 point) What is [1, 2, 3] == [2, 1, 3]?

A. Error B. True C. False D. [1, 2, 3]

6. (1/2 point) What is printed?

```
x = 4  
def f(y):  
    return x * x + 3  
print(f(0) + f(1) + f(2))
```

A. 14 B. 9 C. 7 D. 57

7. (1/2 point) What is printed?

```
xs = list(range(11, 0, -1))  
ys = map(str, xs)  
zs = "".join(ys)  
print(int(zs) % 2)
```

A. 1 B. Error C. 0 D. None

8. (1/2 point) What is printed?

```
x, y = 2, 3  
if x <= y:  
    x = x + y  
elif x > y:  
    x = x - y  
print(x, y)
```

A. Error B. 5 3 C. 2 3 D. 3 2

9. (1/2 point) What is printed assuming succ(n) return n+1?

```
xs = list(range(100))  
ys = map(succ, xs)  
print(sum(ys) + sum(ys))
```

A. Error B. 10100 C. 5050 D. 0

10. (1/2 point) What is printed?

```
x, y = 2, 3  
if x <= y:  
    x = x + y  
if x <= y:  
    x = x + y  
else:  
    x = x - y  
print(x, y)
```

A. Error B. 2 3 C. 3 2 D. 5 3

11. (1/2 point) What is printed?

```
xs = [].extend([1, 2])  
print(xs)
```

A. Error B. [[1, 2]] C. [1, 2] D. None

12. (1/2 point) What is printed?

```
x = 0  
for y in range(1, 10):  
    if y % 2 == 0:  
        x = x + y  
    else:  
        x = x - y  
print(x, y)
```

A. Error B. 45 9 C. -5 9 D. 5 3

13. (1/2 point) What is [] [0]?

A. [] B. Error C. 0 D. [[]]

14. (1/2 point) What is printed?

```
x, y = 0, 1  
while x < 100:  
    x, y = y, x + y  
print(x)
```

A. 143 B. 89 C. 233 D. 101 E. 144 F. 100

15. (1/2 point) What is sum(range(1, 20))?

A. Error B. 45 C. 210 D. 90 E. 190

16. (1/2 point) What is printed?

```
x, y = 2, 3  
if x <= y:  
    x = x + y  
if x > y:  
    x = x - y  
print(x, y)
```

A. 3 2 B. Error C. 5 3 D. 2 3