

# PYTHON TEST - 1.13 (MORE ON LOOPS)

Total points 50/50 

More on Loops

**STUDENT NAME \***

VIVA

✓ 1. The else block of a loop executes when: \*

1/1

- a) The loop executes at least once
- b) The loop is terminated with a break
- c) The loop finishes normally without break
- d) The loop condition is False at the beginning



✓ 2. . Which of the following loops can have an else clause? \*

1/1

- a) for loop
- b) while loop
- c) Both for and while
- d) Neither



✓ 3. What will be the output? \*

1/1

```
for i in range(3):  
    print(i)  
else:  
    print("Done")
```

- a) 0 1 2
- b) 0 1 2 Done
- c) Done
- d) Error



✓ 4. When will the else block NOT execute in a loop? \*

1/1

- a) When loop finishes normally
- b) When loop has no iterations
- c) When loop ends with break
- d) Always executes



✓ 5. Output? \*

1/1

```
n = 0
```

```
while n < 3:
```

```
    print(n)
```

```
    n += 1
```

```
else:
```

```
    print("Finished")
```

- a) 0 1 2
- b) 0 1 2 Finished
- c) Finished
- d) Infinite loop

✓

✓ 6. Does else run if loop body never executes but no break is used? \*

1/1

- a) Yes
- b) No
- c) Only in for
- d) Only in while

✓

✓ 7. What will be output? \*

1/1

```
for i in range(5):  
    if i == 2:  
        break  
  
else:  
    print("Completed")
```

- a) Completed
- b) 0 1 Completed
- c) 0 1
- d) 0 1 2

✓

✓ 8. Which statement is correct about loop-else in Python? \*

1/1

- a) It acts like finally in exception handling
- b) It runs only if break is encountered
- c) It runs if loop terminates normally
- d) It cannot be used in while loops

✓

✓ 9. Output? \*

1/1

```
for i in []:
```

```
    print(i)
```

```
else:
```

```
    print("Empty loop")
```

- a) No output
- b) Error
- c) Empty loop
- d) None

✓

✓ 10. In which case will while...else not execute else? \*

1/1

- a) Loop runs zero times
- b) Loop condition false initially
- c) Loop ends with break
- d) All of the above

✓

✓ 11. The else with loop is most similar to: \*

1/1

- a) catch
- b) finally
- c) default
- d) try without exception

✓

✓ 12. Can else be used without a loop? \*

1/1

a) Yes

b) No



✓ 13. Loop-else is mainly useful with: \*

1/1

a) Searching problems

b) Sorting problems

c) File handling

d) Functions



✓ 14. Output? \*

1/1

```
for i in range(3):  
    print(i)  
  
else:  
    print("Loop ended")
```

a) 0 1 2

b) 0 1 2 Loop ended

c) Loop ended

d) Error



✓ 15. Can we combine else with continue inside a loop? \*

1/1

a) Yes



b) No

✓ 16. Loop-else helps differentiate between: \*

1/1

a) Loop ending normally vs abnormal exit



b) Infinite loop vs finite loop

c) For vs while loop

d) None

✓ 17. Which keyword affects loop-else execution? \*

1/1

a) continue

b) pass

c) break



d) return

✓ 18. In a while loop, else executes when: \*

1/1

- a) Break occurs
- b) Condition becomes False
- c) Condition becomes True
- d) Never



✓ 19. Output? \*

1/1

```
for i in range(2):  
    print("Hi")  
else:  
    print("Bye")
```

- a) Hi Hi
- b) Hi Hi Bye
- c) Bye
- d) Error



✓ 20. Which is correct? \*

1/1

- a) else is optional in loops
- b) else is mandatory in loops
- c) else can only be used with while
- d) None



✓ 21. Output? \*

1/1

while False:

print("Running")

else:

print("Not running")

- a) Running
- b) Not running
- c) No output
- d) Error



✓ 22. Can loop-else be nested? \*

1/1

- a) Yes
- b) No



✓ 23.Output?

\*

1/1

```
for i in range(3):  
    if i == 1:  
        break  
  
else:  
    print("Loop finished")
```

- a) Loop finished
- b) 0
- c) 0 1 Loop finished
- d) 0

✓

✓ 24.Output?

\*

1/1

```
for i in range(2):  
    pass  
  
else:  
    print("Done")
```

- a) Done
- b) No output
- c) Error
- d) None

✓

✓ 25. Loop-else is rarely used, but useful when: \*

1/1

- a) Searching elements
- b) Reversing lists
- c) Declaring variables
- d) Printing statements

✓

✓ 26. What is a nested loop? \*

1/1

- a) Loop inside another loop
- b) Loop with else
- c) Loop with break
- d) None

✓

✓ 27. Which is valid syntax for nested loops? \*

1/1

- a) for..while
- b) while..for
- c) for..for
- d) All of the above

✓

✓ 28. Output? \*

1/1

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

- a) 0 0 0 1 1 0 1 1
- b) 0 1 1 0
- c) 0 0 1 1
- d) Error

✓

✓ 29. In nested loops, the inner loop executes: \*

1/1

- a) Once
- b) Depends on break
- c) Fully for each outer loop iteration
- d) Randomly

✓

✓ 30. Output? \*

1/1

```
count = 0
```

```
for i in range(3):
```

```
    for j in range(2):
```

```
        count += 1
```

```
print(count)
```

- a) 3
- b) 5
- c) 6
- d) Error

✓

✓ 31. Nested loop complexity multiplies when: \*

1/1

- a) Both loops run independently
- b) Loops depend on condition
- c) Loop else is used
- d) None

✓

✓ 32. Output? \*

1/1

```
for i in range(2):  
    for j in range(3):  
        print("*", end="")  
    print()
```

- a) \*\* (new Line) \*\*
- b) \*\*\* (new Line) \*\*\*
- c) \*\*
- d) Error



✓ 33. What is the time complexity of: \*

1/1

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

- a)  $O(n)$
- b)  $O(n^2)$
- c)  $O(\log n)$
- d)  $O(1)$



✓ 34. Nested loops are often used in: \*

1/1

- a) Matrices
- b) Variables
- c) Functions
- d) Strings



✓ 35. Output? \*

1/1

```
for i in range(2):  
    for j in range(2):  
        print(i+j, end=" ")
```

- a) 0 1 1 2
- b) 0 1 2 3
- c) 0 0 1 1
- d) 2 2



✓ 36. Maximum nesting allowed in Python is: \*

1/1

- a) 10
- b) 1000 (based on recursion limit)
- c) Unlimited
- d) None



✓ 37. In nested loops, which loop finishes first? \*

1/1

- a) Outer
- b) Inner
- c) Both simultaneously
- d) None



✓ 38. Output? \*

1/1

```
for i in range(3):  
    for j in range(i):  
        print(j, end=" ")
```

- a) 0 1 2
- b) 0 0 1
- c) 1 2 3
- d) None



✓ 39. Nested loops can also contain: \*

1/1

- a) Functions
- b) Conditionals
- c) Break/continue
- d) All



✓ 40. Output? \*

1/1

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

- a) 4 outputs
- b) 6 outputs
- c) 8 outputs
- d) Error



✓ 41. Nested loops are mostly used in: \*

1/1

- a) Pattern printing
- b) Function calls
- c) Imports
- d) Return statements



✓ 42. Output? \*

1/1

```
for i in range(2):  
    for j in range(2):  
        if j == 1:  
            break  
        print(i, j)
```

- a) 0 0 1 0
- b) 0 0 1 0
- c) 0 1 1 1
- d) None



✓ 43. Which loop is more efficient to nest with lists? \*

1/1

- a) for
- b) while
- c) Both
- d) None



✓ 44. Output? \*

1/1

```
for i in range(2):  
    for j in range(3):  
        if i == j:  
            print(i, j)
```

- a) 0 0 1 1
- b) 0 1 2
- c) 0 1
- d) None

✓

✓ 45. Nested loops can also be combined with: \*

1/1

- a) Else
- b) Except
- c) Finally
- d) Raise

✓

✓ 46. Output? \*

1/1

```
for i in range(2):  
    for j in range(2):  
        print("Hello")  
    else:  
        print("Inner done")
```

- a) Hello Hello Hello Hello Inner done
- b) Hello Hello Inner done Hello Hello Inner done
- c) Error
- d) None

✓

✓ 47. Nested loops are often avoided in big programs due to: \*

1/1

- a) High time complexity
- b) Memory leak
- c) Syntax issues
- d) Compiler error

✓



✓ 48. Output? \*

1/1

```
for i in range(3):  
    for j in range(2):  
        print("*", end="")  
    print()
```

- a) \*\* \*\* \*\*
- b) \* \* \*
- c) \*\*\*
- d) Error



✓ 49. Nested loops can iterate over: \*

1/1

- a) Lists
- b) Strings
- c) Dictionaries
- d) All



✓ 50.Output? \*

1/1

```
for i in range(2):  
    for j in range(2):  
        print(i*j, end=" ")
```

a) 0 0 0 0

b) 0 0 0 1

c) 0 1 2 3

d) None



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