

1. What will be the output of the following code?

```
for i in range(2, 10, 2):  
    print(i, end=" ")
```

- A) 2 4 6 8
- B) 2 3 4 5 6 7 8 9
- C) 2 4 6
- D) 0 2 4 6 8

Answer: A

2. Which of the following loop types can have an else clause in Python?

- A) for loop only
- B) while loop only
- C) Both for and while loops
- D) Neither for nor while loops

Answer: C

3. What is the output of the following code?

```
count = 0  
while count < 3:  
    print(count)  
    count += 1  
else:  
    print("Done")
```

- A) 0 1 2
- B) 0 1 2 Done
- C) Done
- D) 1 2 3 Done

Answer: B

4. What will break do inside a loop?

- A) Skips the current iteration
- B) Exits the loop immediately
- C) Ends the program
- D) Goes to the else block of the loop

Answer: B

5. What does the continue statement do in Python loops?

- A) Exits the loop completely
- B) Skips the remaining code in the current iteration and moves to the next iteration
- C) Restarts the loop from the beginning

D) Jumps to the else clause of the loop

Answer: B

6. What is the output of the following code?

```
for i in range(1, 5):
```

```
    if i == 3:
```

```
        continue
```

```
    print(i)
```

A) 1 2 3 4

B) 1 2 4

C) 1 4

D) 2 3 4

Answer: B

7. How many times will the loop run?

```
for i in range(5):
```

```
    pass
```

A) 4

B) 5

C) Infinite

D) 6

Answer: B

8. Which of the following is true about the range() function?

A) range(start, stop, step) includes the stop value

B) range() returns a list

C) range(start, stop) excludes the stop value

D) step value cannot be negative

Answer: C

9. What is the output of the following code?

```
for i in range(10, 5, -2):
```

```
    print(i, end=" ")
```

A) 10 8 6

B) 10 9 8 7 6

C) 8 6

D) 10 8

Answer: A

10. Which loop will definitely execute at least once in Python?

A) for loop

B) while loop

C) do-while loop

D) None of the above

Answer: D

11. What is the output of the following code?

```
i = 0
while i < 5:
    i += 1
    if i == 3:
        break
print(i)
```

A) 2

B) 3

C) 4

D) 5

Answer: B

12. Which statement is true about nested loops?

A) Python allows only for-in nested loops

B) A loop inside another loop is called a nested loop

C) Nested loops cannot use break or continue

D) Nested loops always run infinitely

Answer: B

13. What will be the output of this code?

```
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) (1,2)  
C) (0,0) (1,1)  
D) (1,0) (2,1)

Answer: A

14. Which keyword ends the execution of the current loop iteration?

A) exit

B) break

C) stop

D) continue

Answer: D

15. Which of the following is the correct syntax of a for loop in Python?

A) for i in (0, 5):

B) for (i=0; i<5; i++):

C) for i in range(5):

D) for i: range(5)

Answer: C

16. What is the output of the following code?

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

```
    print("Outer", i)
```

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

```
        print("Inner", j)
```

A) Outer 0 Inner 0 Inner 1 Outer 1 Inner 0 Inner 1 Outer 2 Inner 0 Inner 1

B) Outer 0 Outer 1 Outer 2 Inner 0 Inner 1

C) Outer 0 Inner 0 Outer 1 Inner 1 Outer 2

D) Outer 0 Inner 1 Outer 1 Inner 0 Outer 2 Inner 1

Answer: A

17. What is the output of the following code?

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

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

```
        if j == 1:
```

```
            break
```

```
        print(i, j)
```

A) (0,0) (1,0)

B) (0,0) (0,1) (1,0) (1,1)

C) (0,0) (0,1) (0,2) (1,0) (1,1) (1,2)

D) (0,1) (1,1)

Answer: A

18. Which of the following loops may become infinite if not handled carefully?

A) for loop

B) while loop

C) Both A and B

D) Neither A nor B

Answer: B

19. What is the output of the following code?

```
for i in range(5, 1, -1):
```

```
    print(i, end=" ")
```

A) 5 4 3 2

B) 5 4 3 2 1

C) 4 3 2 1

D) 5 3 1

Answer: A

20. Which of the following statements is invalid?

- A) while True: pass
- B) for i in range(10): pass
- C) for i in 10: pass
- D) while 1: pass

Answer: C

21. What is the output of this code?

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

- A) (0,1) (0,2) (1,0) (1,2) (2,0) (2,1)
- B) (0,0) (1,1) (2,2)
- C) (1,0) (2,0)
- D) No output

Answer: A

22. What is the output of the following code?

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

- A) 0 1 2 Finished
- B) 0 1 2
- C) Finished
- D) 1 2 3 Finished

Answer: A

23. What will happen if the step value in range() is 0?

- A) It will generate numbers infinitely
- B) It will raise a ValueError
- C) It will return an empty range
- D) It will return only the start value

Answer: B

24. Which of the following is correct about break and continue?

- A) break exits loop; continue skips iteration
- B) break skips iteration; continue exits loop
- C) Both break and continue exit the loop

D) Both break and continue skip iteration

Answer: A

25. What is the output of this code?

```
i = 0
while i < 3:
    print(i)
    i += 1
else:
    print("Done")
```

A) 0 1 2

B) 0 1 2 Done

C) Done

D) Infinite loop

Answer: B

26. Which of the following is equivalent to range(0, 5)?

A) range(5)

B) range(0, 5, 1)

C) Both A and B

D) None of these

Answer: C

27. What is the output of the following code?

```
for i in range(1, 10, 3):
    print(i, end=" ")
```

A) 1 4 7

B) 1 3 5 7 9

C) 1 4 7 10

D) 1 2 3

Answer: A

28. Which loop will not run at all if the condition is false from the beginning?

A) for loop

B) while loop

C) Both for and while loop

D) None

Answer: B

29. What will be the output of the following code?

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

A) 0 1 1 2 2 3

B) 0 1 2 3 4 5

C) 0 1 0 1 0 1

D) 1 2 3 4 5 6

Answer: A

30. Which of the following is an infinite loop?

A) while True: pass

B) for i in range(1): pass

C) for i in range(0): pass

D) while False: pass

Answer: A

31. What is the output of the following code?

```
for i in range(2, 7, 2):
```

```
    print(i, end=" ")
```

A) 2 3 4 5 6

B) 2 4 6

C) 2 4

D) 2 5

Answer: B

32. Which function generates a sequence of numbers in Python loops?

A) list()

B) range()

C) seq()

D) numbers()

Answer: B

33. What is the output of the following code?

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

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

```
        if j > i:
```

```
            break
```

```
        print(i, j)
```

A) (0,0) (1,0) (1,1) (2,0) (2,1) (2,2)

B) (0,0) (1,1) (2,2)

C) (0,0) (1,0) (2,0)

D) No output

Answer: A

34. What is the output of this code?

```
for i in range(5, 0, -2):
```

```
print(i, end=" ")
```

A) 5 3 1

B) 5 4 3 2 1

C) 5 3

D) 1 3 5

Answer: A

35. Which of the following loops executes a fixed number of times when range() is used?

A) while loop

B) for loop

C) Both

D) None

Answer: B

36. What is the output of this code?

```
i = 1
```

```
while i < 10:
```

```
    print(i, end=" ")
```

```
    i *= 2
```

A) 1 2 4 8

B) 1 2 3 4 5 6 7 8 9

C) Infinite loop

D) 2 4 8

Answer: A

37. Which loop construct is best suited for iterating over a list?

A) for loop

B) while loop

C) do-while loop

D) None of these

Answer: A

38. What will be the output of this code?

```
for i in range(4):
```

```
    if i == 2:
```

```
        break
```

```
    print(i)
```

```
else:
```

```
    print("End")
```

A) 0 1 End

B) 0 1 2 End



C) 0 1

D) End

Answer: C

39. What is the output of this code?

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

A) 0 1 1 2 1 2 2 3

B) 0 1 2

C) 0 1 2 3

D) 1 2 3

Answer: A

40. Which keyword is used to exit from the entire loop?

A) stop

B) exit

C) break

D) continue

Answer: C

41. Which of the following is an infinite loop if condition is always True?

A) while loop

B) for loop with range()

C) Both A and B

D) None

Answer: A

42. What is the output of the following code?

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

A) (1,0) (2,0) (2,1)

B) (0,0) (1,1) (2,2)

C) (0,1) (1,2)

D) No output

Answer: A

43. What is the output of this code?

```
for i in range(0, -5, -1):
```

```
print(i, end=" ")
```

A) 0 -1 -2 -3 -4

B) 0 -1 -2 -3 -4 -5

C) 0 -5

D) -1 -2 -3 -4

Answer: A

44. Which of the following will stop an infinite while loop?

A) break statement

B) continue statement

C) else clause

D) None of these

Answer: A

45. What is the output of this code?

```
s = "abc"
```

```
for i in s:
```

```
    print(i, end="-")
```

A) a-b-c-

B) abc

C) a-b-c

D) a b c

Answer: A

46. What is the output of this code?

```
i = 0
```

```
while i < 3:
```

```
    print(i)
```

```
    i += 1
```

```
else:
```

```
    print("Loop finished")
```

A) 0 1 2

B) 0 1 2 Loop finished

C) 1 2 3 Loop finished

D) Infinite loop

Answer: B

47. Which of the following is the correct way to iterate a list in reverse order?

A) for i in list[::-1]:

B) for i in reversed(list):

C) Both A and B

D) None

Answer: C

48. What will be the output of this code?

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

A) (0,0) (0,1) (1,0)

B) (0,0) (1,0)

C) (1,1)

D) (0,0) (0,1) (1,1)

Answer: A

49. Which loop clause executes only when the loop finishes without a break?

A) else

B) finally

C) continue

D) return

Answer: A

50. Which loop in Python is used when the number of iterations is known in advance?

A) while loop

B) for loop

C) do-while loop

D) Infinite loop

Answer: B