

PYTHON

DECISION MAKING STATEMENTS - HARD LEVEL

1. What is the output?

```
x = 0  
  
if x or 1:  
  
    print("Yes")  
  
else:  
  
    print("No")
```

- A) Yes
- B) No
- C) 0
- D) Error

Answer: A

2. What will this print?

```
x = False  
  
if not x and x:  
  
    print("A")  
  
else:  
  
    print("B")
```

- A) A
- B) B
- C) True
- D) False

Answer: B

3. Which of these is a **valid nested condition**?

- A) if x>5: if y>3: print(y)
- B) if x>5 elif y>3: print(y)
- C) if x>5 else if y>3: print(y)
- D) if x>5: else if y>3: print(y)

Answer: A

4. Output of:

```
x = 5  
  
y = 10  
  
if x > y or y < 15:
```

```
print("Yes")
```

```
else:
```

```
print("No")
```

A) Yes

B) No

C) Error

D) None

Answer: A

5. Which evaluates first in: if x and y or z:?

A) x and y

B) y or z

C) x or y

D) z and y

Answer: A

6. Output of:

```
x = 5
```

```
if x>0:
```

```
    if x>10:
```

```
        print("A")
```

```
    else:
```

```
        print("B")
```

A) A

B) B

C) Error

D) None

Answer: B

7. What prints?

```
x = True
```

```
y = False
```

```
if x and not y:
```

```
    print("Yes")
```

```
else:
```

```
    print("No")
```

A) Yes

B) No

C) True

D) False

Answer: A

8. Which is **true about short-circuit evaluation** in Python?

- A) All conditions are always evaluated
- B) and stops if the first condition is False
- C) or stops if the first condition is False
- D) Python evaluates randomly

Answer: B

9. Output of:

```
x = 0  
  
if x:  
  
    print("True")  
  
elif not x:  
  
    print("False")
```

- A) True
- B) False
- C) 0
- D) None

Answer: B

10. Which will print nothing?

```
x = None  
  
if x:  
  
    print("A")
```

- A) A
- B) None
- C) Empty output
- D) Error

Answer: C

11. Output of:

```
x = 5  
  
if x > 0 and x < 10 or x > 20:  
  
    print("Yes")  
  
else:  
  
    print("No")
```

- A) Yes
- B) No
- C) Error

D) None

Answer: A

12. Output of:

```
x = 5
```

```
if (x>0 and x<3) or (x>4 and x<6):
```

```
    print("Inside")
```

```
else:
```

```
    print("Outside")
```

A) Inside

B) Outside

C) Error

D) None

Answer: A

13. What is printed?

```
x = 5
```

```
if x<3:
```

```
    print("A")
```

```
elif x>3:
```

```
    print("B")
```

```
else:
```

```
    print("C")
```

A) A

B) B

C) C

D) Error

Answer: B

14. Output:

```
x = 5
```

```
if x>3:
```

```
    if x>10:
```

```
        print("A")
```

```
    elif x>4:
```

```
        print("B")
```

```
else:
```

```
print("C")
```

- A) A
- B) B
- C) C
- D) Error

Answer: B

15. Output of:

```
x = 10
```

```
y = 5
```

```
if x>y or x<y and y>0:
```

```
    print("Yes")
```

```
else:
```

```
    print("No")
```

- A) Yes
- B) No
- C) Error
- D) None

Answer: A

16. Output:

```
x = True
```

```
y = False
```

```
if x or y and not y:
```

```
    print("Yes")
```

```
else:
```

```
    print("No")
```

- A) Yes
- B) No
- C) True
- D) False

Answer: A

17. Which of these is **not valid Python syntax**?

- A) if x>5:
- B) if(x>5)
- C) if x==y:
- D) if x!=y:

Answer: B

18. Output:

```
x = 0  
  
y = 0  
  
if x or y:  
    print("Yes")  
else:  
    print("No")
```

- A) Yes
- B) No
- C) 0
- D) Error

Answer: B

19. Output of:

```
x = 5  
  
if x > 10:  
    print("A")  
elif x>3:  
    print("B")  
else:  
    print("C")
```

- A) A
- B) B
- C) C
- D) Error

Answer: B

20. What prints?

```
x = 0  
  
if x:  
    print("True")  
else:  
    print("False")
```

- A) True
- B) False
- C) 0
- D) None

Answer: B

21. Output:

```
x = 5
```

```
y = 10
```

```
if x>0 and y<5:
```

```
    print("A")
```

```
elif x>0 and y>5:
```

```
    print("B")
```

```
else:
```

```
    print("C")
```

A) A

B) B

C) C

D) Error

Answer: B

22. Which is **evaluated first** in: if x>5 or y<10 and z>0:?

A) x>5

B) y<10

C) z>0

D) y<10 and z>0

Answer: D

23. Output:

```
x = 5
```

```
if x>0:
```

```
    if x<10:
```

```
        if x==5:
```

```
            print("Inside")
```

```
        else:
```

```
            print("Outside")
```

A) Inside

B) Outside

C) Error

D) None

Answer: A

24. Output of:

```
x = 10
```

```
if x>0 and x<5:
```

```
print("A")  
  
elif x>5 or x<15:  
  
print("B")  
  
else:  
  
print("C")
```

- A) A
- B) B
- C) C
- D) Error

Answer: B

25. Output:

```
x = False  
  
if not x:  
  
print("Yes")  
  
else:  
  
print("No")
```

- A) Yes
- B) No
- C) False
- D) True

Answer: A

26. Output of:

```
x = 10  
  
y = 20  
  
if x>5 or y<15 and y>0:  
  
print("Yes")  
  
else:  
  
print("No")
```

- A) Yes
- B) No
- C) Error
- D) None

Answer: A

27. What prints?

```
x = 3
```



```
if x>1 and x<5:  
    print("Inside")  
else:  
    print("Outside")
```

- A) Inside
- B) Outside
- C) Error
- D) None

Answer: A

28. Output:

```
x = 0  
if x==0:  
    print("Zero")  
elif x:  
    print("Non-zero")  
else:  
    print("Other")
```

- A) Zero
- B) Non-zero
- C) Other
- D) Error

Answer: A

29. Output:

```
x = 5  
if x<0 or x>2 and x<10:  
    print("Yes")  
else:  
    print("No")
```

- A) Yes
- B) No
- C) Error
- D) None

Answer: A

30. Which evaluates **last** in: if a or b and c:?

- A) a
- B) b

C) c
D) a or b
Answer: C

31. Output:

```
x = True  
  
y = False  
  
if not x or y:  
  
    print("Yes")  
  
else:  
  
    print("No")
```

A) Yes
B) No
C) True
D) False
Answer: B

32. Output:

```
x = 5  
  
y = 10  
  
if x>0 and y<15 or x>10:  
  
    print("Yes")  
  
else:  
  
    print("No")
```

A) Yes
B) No
C) Error
D) None
Answer: A

33. Output:

```
x = 0  
  
if x:  
  
    print("A")  
  
elif x==0:  
  
    print("B")  
  
else:
```

```
print("C")
```

- A) A
- B) B
- C) C
- D) Error

Answer: B

34. Output:

```
x = 5

if x>10:

    print("A")

elif x>3:

    if x<6:

        print("B")

    else:

        print("C")
```

- A) A
- B) B
- C) C
- D) Error

Answer: B

35. Output:

```
x = True

if x and x==False:

    print("A")

else:

    print("B")
```

- A) A
- B) B
- C) True
- D) False

Answer: B

36. Output:

```
x = 5

y = 10

if x>0 or y<5:
```

```
print("Yes")
```

```
else:
```

```
print("No")
```

A) Yes

B) No

C) Error

D) None

Answer: A

37. Output:

```
x = 5
```

```
if x>3:
```

```
if x>10:
```

```
print("A")
```

```
else:
```

```
print("B")
```

```
else:
```

```
print("C")
```

A) A

B) B

C) C

D) Error

Answer: B

38. Output:

```
x = 0
```

```
if x or x==0:
```

```
print("Yes")
```

```
else:
```

```
print("No")
```

A) Yes

B) No

C) 0

D) Error

Answer: A

39. Output:

```
x = 10
```

if x>5 and x<15:

print("Inside")

else:

print("Outside")

A) Inside

B) Outside

C) Error

D) None

Answer: A

40. Output:

x = False

if x or not x:

print("Yes")

else:

print("No")

A) Yes

B) No

C) True

D) False

Answer: A

41. Output:

x = 3

if x>5 or x<4 and x!=0:

print("Yes")

else:

print("No")

A) Yes

B) No

C) Error

D) None

Answer: A

42. Output:

x = 1

y = 2

if x<0 and y>0 or x>0:

```
print("Yes")
```

```
else:
```

```
print("No")
```

A) Yes

B) No

C) Error

D) None

Answer: A

43. Output:

```
x = True
```

```
y = True
```

```
if x and y and not x:
```

```
print("A")
```

```
else:
```

```
print("B")
```

A) A

B) B

C) True

D) False

Answer: B

44. Output:

```
x = 0
```

```
if x==1 or x==0:
```

```
print("Yes")
```

```
else:
```

```
print("No")
```

A) Yes

B) No

C) 0

D) Error

Answer: A

45. Output:

```
x = 5
```

```
if x>0:
```

```
if x<10:
```

```
if x==5:  
    print("Inside")  
else:  
    print("Else")  
else:  
    print("Outside")
```

- A) Inside
- B) Else
- C) Outside
- D) Error

Answer: A

46. Output:

```
x = 5  
  
if x>0 or x<10 and x>4:  
    print("Yes")  
else:  
    print("No")
```

- A) Yes
- B) No
- C) Error
- D) None

Answer: A

47. Output:

```
x = 0  
  
if x or not x:  
    print("Yes")  
else:  
    print("No")
```

- A) Yes
- B) No
- C) Error
- D) None

Answer: A

48. Output:

```
x = 3
```

if x>0 and x<5 or x>10:

print("Inside")

else:

print("Outside")

A) Inside

B) Outside

C) Error

D) None

Answer: A

49. Output:

x = True

y = False

if not x and y or x:

print("Yes")

else:

print("No")

A) Yes

B) No

C) True

D) False

Answer: A

50. Output:

x = 0

if x and x!=0:

print("A")

elif not x:

print("B")

else:

print("C")

A) A

B) B

C) C

D) Error

Answer: B