C++ TEST-4 (FLOW CONTROL-LOOPS)

Total points 50/50 ?

STUDENT NAME *

VIVA

✓ **1. Which of the following is not a loop in C++?** *   1/1

○ A) for

○ B) while

◉ C) repeat-until   ✓

○ D) do-while

✓ **2. The initialization, condition, and increment are written in which loop header?**   *1/1

○ A) while

○ B) do-while

◉ C) for   ✓

○ D) switch

✓ **3. Which loop always executes at least once?** * 1/1

○ A) for

○ B) while

◉ C) do-while ✓

○ D) nested for

✓ **4. Which statement is used to terminate a loop prematurely?** * 1/1

○ A) exit

○ B) continue

◉ C) break ✓

○ D) stop

✓ **5. Which statement is used to skip the current iteration?** * 1/1

○ A) return

○ B) break

◉ C) continue ✓

○ D) skip

✓ 6. A loop inside another loop is called a: *   1/1

◉ A) nested loop   ✓

○ B) double loop

○ C) inner loop

○ D) complex loop

✓ 7. How many times will the following loop run? *   1/1

for(int i = 1; i <= 5; i++) { }

○ A) 4

◉ B) 5   ✓

○ C) 6

○ D) Infinite

✓ 8. What will be the output of this code? *   1/1

int i = 1;

while(i <= 3) {

  cout << i;

  i++;

}

◉ A) 123   ✓

○ B) 321

○ C) 111

○ D) 12

✓ **9. Which loop checks the condition after executing the statements?** * 1/1

○ A) for

○ B) while

◉ C) do-while ✓

○ D) nested while

✓ **10. Which of the following is an entry-controlled loop?** * 1/1

○ A) for

○ B) while

◉ C) both A and B ✓

○ D) do-while

✓ **11. What is the output of:** * 1/1

for(int i=0; i<3; i++);

cout << i;

○ A) 0

○ B) 2

○ C) 3

◉ D) Error ✓

12. Infinite loop can occur if: *

1/1

○ A) Condition never becomes false

○ B) No increment statement

○ C) Logical error in condition

● D) All of the above ✓

13. Which of the following loops is most suitable when number of iterations is known?

*1/1

○ A) while

○ B) do-while

● C) for ✓

○ D) switch

14. What type of loop is shown below? *

1/1

while(true) { ... }

○ A) Finite loop

● B) Infinite loop ✓

○ C) Null loop

○ D) Count-controlled loop

✓ **15. The variable controlling the loop is called:** * 1/1

⦿ A) control variable ✓

◯ B) loop terminator

◯ C) condition variable

◯ D) counter

✓ **16. What is the output of the loop?** * 1/1

```
int i = 1;

do {

  cout << i;

  i++;

} while(i < 4);
```

◯ A) 12

⦿ B) 123 ✓

◯ C) 1234

◯ D) None

✓ **17. The syntax of a whil** * 1/1

◯ A) while(condition);

◯ B) while(condition) statement;

◯ C) while{condition}(statement);

⦿ D) while(condition) { statements } ✓

✓ **18. In for(int i=0; i<=10; i+=2), the loop will execute how many times?** * 1/1

○ A) 5

● B) 6 ✓

○ C) 10

○ D) 11

✓ **19. What happens if the condition in a while loop is initially false?** * 1/1

○ A) Executes once

○ B) Executes infinitely

● C) Skips the loop body ✓

○ D) Causes an error

✓ **20. Which loop is guaranteed to run at least once?** * 1/1

○ A) for

○ B) while

● C) do-while ✓

○ D) All

✓ 21. In a for loop, which expression is optional? *   1/1

○ A) Initialization

○ B) Condition

○ C) Increment

◉ D) All of these   ✓

✓ 22. What will happen? *   1/1

for(;;)

  cout << "Hello";

○ A) Prints Hello once

◉ B) Prints Hello infinitely   ✓

○ C) Syntax error

○ D) Compilation fails

✓ 23. Nested loops mean: *   1/1

◉ A) Loop inside another loop   ✓

○ B) Multiple if statements

○ C) Loop after loop

○ D) Repetition of same loop

?

✓ **24. In nested loops, the inner loop executes _____ for every outer loop** *1/1
iteration.

○ A) once

○ B) twice

◉ C) fully ✓

○ D) half

✓ **25. What will this code output?** * 1/1

for(int i=1; i<=3; i++)

  for(int j=1; j<=2; j++)

    cout << "*";

○ A) ***

◉ B) ****** ✓

○ C) 3

○ D) * * *

✓ **26. What is the output?** *   1/1

```
int i = 1;

while(i <= 5) {

  if(i == 3)

    break;

  cout << i;

  i++;

}
```

○ A) 12345

● B) 12   ✓

○ C) 123

○ D) None

✓ **27. In which loop will the following code execute infinitely?** *   1/1
for(int i=1; i>0; i++) { }

○ A) while

● B) for   ✓

○ C) do-while

○ D) switch

28. What is the output? * ✓

1/1

```
int i = 0;

do {

 i++;

} while(i < 0);

cout << i;
```

- ○ A) 0
- ⦿ B) 1 ✓
- ○ C) 2
- ○ D) None

29. Which loop structure is best suited for menu-driven programs? * ✓

1/1

- ○ A) while
- ⦿ B) do-while ✓
- ○ C) for
- ○ D) nested for

30. The continue statement transfers control to: * ✓

1/1

- ○ A) next statement
- ⦿ B) next iteration ✓
- ○ C) loop exit
- ○ D) end of program

31. A for loop can be replaced by a while loop. * 1/1

- ● A) True ✓
- ○ B) False

32. The condition in a while loop must be a: * 1/1

- ○ A) numeric value
- ○ B) string
- ● C) boolean expression ✓
- ○ D) constant

33. Which loop executes when condition is false? * 1/1

- ○ A) for
- ○ B) while
- ● C) do-while ✓
- ○ D) None

34. Which part of the for loop is executed only once? * 1/1

- ○ A) condition
- ● B) initialization ✓
- ○ C) increment
- ○ D) statement

35. What is printed? *   1/1

for(int i=10; i>0; i-=2)

  cout << i << " ";

- 🔘 A) 10 8 6 4 2   ✓
- ⭕ B) 10 8 6 4
- ⭕ C) 10 8 6 4 2 0
- ⭕ D) 10 9 8 7

---

36. What will happen if condition is omitted in a for loop? *   1/1

- ⭕ A) Syntax error
- 🔘 B) Infinite loop   ✓
- ⭕ C) Executes once
- ⭕ D) No output

---

37. What is output? *   1/1

for(int i=1; i<=3; i++)

  cout << i;

cout << i;

- ⭕ A) 1233
- 🔘 B) Error   ✓
- ⭕ C) 123
- ⭕ D) 1234

✓ **38. The while loop is an example of:** *   1/1

○ A) Exit-controlled loop

○ B) Entry-controlled loop

○ C) Conditional loop

◉ D) Both B and C   ✓

✓ **39. What is output?** *   1/1

int i=0;

while(i<5)

  cout<<i++;

◉ A) 01234   ✓

○ B) 12345

○ C) 1234

○ D) 0 1 2 3 4

✓ **40. Which loop is best for user input repetition until exit?** *   1/1

○ A) for

○ B) while

◉ C) do-while   ✓

○ D) nested while

?

✓ **41. Loop control can be altered using:** * 1/1

○ A) break

○ B) continue

○ C) goto

⦿ D) All of these ✓

✓ **42. In a nested loop, how many total iterations if outer loop runs 3 times** *1/1 **and inner runs 4 times?**

○ A) 7

⦿ B) 12 ✓

○ C) 3

○ D) 4

✓ **43. Which keyword immediately exits the current loop?** * 1/1

⦿ A) break ✓

○ B) continue

○ C) stop

○ D) skip

44. Which of the following is invalid syntax? * 1/1

○ A) for(int i=0;i<5;i++)

○ B) while(i<5)

◉ C) do while(i<5); ✓

○ D) do { } while(i<5);

45. Which of the following loops has two keywords? * 1/1

○ A) for

○ B) while

◉ C) do-while ✓

○ D) nested while

46. A loop with no body is called: * 1/1

○ A) empty loop

◉ B) null loop ✓

○ C) body-less loop

○ D) infinite loop

47. Output of: *   1/1

```
int i=1;

for(; i<=3; )

  cout << i++;
```

- A) 123 ✓
- B) 12
- C) 1
- D) 23

48. Which loop has the highest flexibility? *   1/1

- A) for ✓
- B) while
- C) do-while
- D) None

49. Which statement about loops is false? *   1/1

- A) Loops can be nested
- B) Loops can execute 0 times
- C) All loops are entry-controlled ✓
- D) Loops can be infinite

✓ 50. The execution of a loop depends on: *   1/1

- ⦿ A) Condition   ✓
- ○ B) Statement
- ○ C) Increment
- ○ D) Counter

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