

C LANG TEST-4 (FLOW CONTROL WITH 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) do-while
- ☒ D) repeat



✓ 2. Which loop is guaranteed to execute at least once? *

1/1

- ☐ A) for
- ☐ B) while
- ☒ C) do-while
- ☐ D) if



✓ 3. The initialization, condition, and increment are parts of which loop? * 1/1

- ☐ A) while
- ☐ B) do-while
- ☒ C) for
- ☐ D) all of these



✓ 4. The while loop is also known as a ____ loop. * 1/1

- ☒ A) Entry controlled
- ☐ B) Exit controlled
- ☐ C) Infinite
- ☐ D) None



✓ 5. The do-while loop is also known as a ____ loop. * 1/1

- ☐ A) Entry controlled
- ☒ B) Exit controlled
- ☐ C) Recursive
- ☐ D) Conditional



✓ 6. What is the correct syntax of a for loop? *

1/1

- ☒ A) for (init; condition; increment)
- ☐ B) for (condition; init; increment)
- ☐ C) for (increment; condition; init)
- ☐ D) for (init, condition, increment)



✓ 7. How many times will the following loop execute? *

1/1

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

- ☐ A) 0
- ☐ B) 4
- ☒ C) 5
- ☐ D) Infinite



✓ 8. What is the output of: *

1/1

```
int i = 1;

while (i <= 3)

{

    printf("%d ", i);

    i++;

}
```

- ☐ A) 0 1 2
- ☒ B) 1 2 3
- ☐ C) 2 3 4
- ☐ D) Infinite loop



✓ 9. The condition of a while loop must be: *

1/1

- ☐ A) Integer
- ☐ B) Character
- ☒ C) Boolean expression
- ☐ D) Float



✓ 10. What will happen if the semicolon is placed immediately after the while condition?

*1/1

- ☐ A) Syntax error
- ☐ B) Infinite loop
- ☒ C) Null statement loop
- ☐ D) None



✓ 11. Which statement is used to terminate a loop immediately? *

1/1

- ☐ A) stop
- ☐ B) exit
- ☒ C) break
- ☐ D) continue



✓ 12. Which statement skips the remaining statements in a loop and goes to next iteration? *1/1

- ☐ A) break
- ☒ B) continue
- ☐ C) goto
- ☐ D) exit



✓ 13. What is the output? *

1/1

```
for (i=1; i<=5; i++)  
{  
    if (i==3) continue;  
    printf("%d ", i);  
}
```

- ☐ A) 1 2 3 4 5
- ☒ B) 1 2 4 5
- ☐ C) 2 3 4 5
- ☐ D) 1 2



✓ 14. Which of the following loops can be nested? *

1/1

- ☐ A) for
- ☐ B) while
- ☐ C) do-while
- ☒ D) All of these



✓ 15. How many times will this loop run? *

1/1

```
int i=0;  
  
while (i < 5)  
  
    i++;
```

- ☐ A) 0
- ☒ B) 5
- ☐ C) 4
- ☐ D) Infinite



✓ 16. What is an infinite loop? *

1/1

- ☐ A) A loop that runs once
- ☒ B) A loop that never ends
- ☐ C) A loop that runs twice
- ☐ D) A loop that runs finitely



✓ 17. Which loop executes faster generally? *

1/1

- ☐ A) for
- ☐ B) while
- ☐ C) do-while
- ☒ D) All same



✓ 18. In a for loop, the increment section can be: *

1/1

- ☐ A) Left empty
- ☐ B) Written in the body
- ☐ C) Done with multiple variables
- ☒ D) All of these



✓ 19. What happens if the condition in a for loop is always true? *

1/1

- ☐ A) Executes once
- ☐ B) Compile error
- ☒ C) Infinite loop
- ☐ D) Terminates



✓ 20. Can a for loop have no body? *

1/1

- ☒ A) Yes
- ☐ B) No
- ☐ C) Only in while loop
- ☐ D) Only in do-while



✓ 21. What will happen? *

1/1

```
for(;;)  
    printf("VIVA");
```

- ☐ A) Error
- ☐ B) Prints once
- ☒ C) Infinite printing
- ☐ D) None



✓ 22. The keyword break can be used in: *

1/1

- ☐ A) Loops only
- ☐ B) Switch only
- ☒ C) Loops and switch both
- ☐ D) If only



✓ 23. What does this code print? *

1/1

```
int i=0;  
  
do {  
  
    printf("%d ", i);  
  
    i++;  
  
} while (i<3);
```

- ☐ A) 1 2 3
- ☒ B) 0 1 2
- ☐ C) 0 1 2 3
- ☐ D) None



✓ 24. Which loop is most suitable when the number of iterations is known? * 1/1

- ☐ A) while
- ☐ B) do-while
- ☒ C) for
- ☐ D) if



✓ 25. What type of error can cause an infinite loop? *

1/1

- ☐ A) Syntax error
- ☒ B) Logical error
- ☐ C) Runtime error
- ☐ D) None



✓ 26. Which of the following is correct? *

1/1

- ☐ A) while(1) is an infinite loop
- ☐ B) for(;;) is an infinite loop
- ☒ C) Both A and B
- ☐ D) None



✓ 27. What is the output of: *

1/1

```
int i;  
  
for (i=10; i>0; i-=2)  
  
    printf("%d ", i);
```

- ☒ A) 10 8 6 4 2
- ☐ B) 10 9 8 7 6
- ☐ C) 2 4 6 8 10
- ☐ D) 10 8 6 4



✓ 28. What is the output of: *

1/1

```
int i=1;  
  
while(i<=5)  
  
    printf("%d ", i++);
```

- ☐ A) 0 1 2 3 4
- ☒ B) 1 2 3 4 5
- ☐ C) 2 3 4 5 6
- ☐ D) None



✓ 29. The continue statement cannot be used with: *

1/1

- ☐ A) for
- ☐ B) while
- ☐ C) do-while
- ☒ D) switch



✓ 30. Which of the following loops checks the condition at the end? *

1/1

- ☐ A) for
- ☐ B) while
- ☒ C) do-while
- ☐ D) all



✓ 31. How many times will the following loop run? *

1/1

```
int i=0;  
  
do {  
  
    i++;  
  
} while (i<0);
```

- ☐ A) 0
- ☒ B) 1
- ☐ C) Infinite
- ☐ D) None



✓ 32. What is the output? *

1/1

```
for (int i=0; i<10; i+=3)
    printf("%d ", i);
```

- ☒ A) 0 3 6 9
- ☐ B) 0 1 2 3
- ☐ C) 3 6 9
- ☐ D) 0 4 8



✓ 33. What is the output of nested loop? *

1/1

```
for(i=1;j<=2;i++)
    for(j=1;j<=3;j++)
        printf("*");
```

- ☐ A) ***
- ☒ B) *****
- ☐ C) 5 stars
- ☐ D) None



✓ 34. Which loop is best suited when condition is tested first? *

1/1

- ☐ A) do-while
- ☒ B) while
- ☐ C) for
- ☐ D) switch



✓ 35. What is the value of i after execution? *

1/1

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

- ☐ A) 2
- ☒ B) 3
- ☐ C) 4
- ☐ D) 0



✓ 36. Can we use multiple variables in for loop initialization? *

1/1

- ☒ A) Yes
- ☐ B) No
- ☐ C) Only in while loop
- ☐ D) Only in do-while



✓ 37. What will be printed? *

1/1

```
for (i=1; i<=3; i++)  
{  
    for (j=1; j<=2; j++)  
        printf("%d ", j);  
}
```

- ☐ A) 1 2
- ☒ B) 1 2 1 2 1 2
- ☐ C) 1 1 1 2 2 2
- ☐ D) None



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

1/1

- ☐ A) Executes once
- ☒ B) Executes twice
- ☐ C) Never executes
- ☐ D) Infinite



✓ 39. What is the output? *

1/1

```
int i = 1;

while (i <= 3)

{

    printf("%d ", i);

    i += 2;

}
```

- ☒ A) 1 3
- ☐ B) 1 2 3
- ☐ C) 2 3
- ☐ D) 1 2



✓ 40. What will be the output? *

1/1

```
int i = 0;

for (; i<3; )

{

    printf("%d ", i);

    i++;

}
```

- ☐ A) 1 2 3
- ☒ B) 0 1 2
- ☐ C) Infinite
- ☐ D) Error



✓ 41. Which loop allows omitting all expressions? *

1/1

- ☒ A) for
- ☐ B) while
- ☐ C) do-while
- ☐ D) None



✓ 42. Which keyword is used to jump to another part of program? *

1/1

- ☐ A) continue
- ☐ B) break
- ☒ C) goto
- ☐ D) jump



✓ 43. What is the output of: *

1/1

```
for (i=1; i<=5; i++)  
{  
    if(i==4) break;  
    printf("%d ", i);  
}
```

- ☐ A) 1 2 3 4 5
- ☒ B) 1 2 3
- ☐ C) 4 5
- ☐ D) None



✓ 44. In nested loops, how many times does inner loop run if outer runs 2 times and inner runs 3 times? *1/1

- ☐ A) 2
- ☐ B) 3
- ☐ C) 5
- ☒ D) 6



✓ 45. Which of the following causes an infinite loop? *

1/1

- ☐ A) for(i=0;i<10;i++)
- ☒ B) while(1)
- ☐ C) do while(0)
- ☐ D) None



✓ 46. What happens if you omit all three expressions in for loop? *

1/1

- ☐ A) Compile error
- ☒ B) Infinite loop
- ☐ C) Executes once
- ☐ D) None



✓ 47. Which of the following can replace loops? *

1/1

- ☒ A) goto
- ☐ B) if
- ☐ C) switch
- ☐ D) break



✓ 48. What is the purpose of loop control statements? *

1/1

- ☒ A) To skip or terminate loops
- ☐ B) To start loops
- ☐ C) To print
- ☐ D) To execute functions



✓ 49. What is the output? *

1/1

```
int i = 0;  
  
do {  
    printf("%d ", i++);  
} while (i < 2);
```

- ☒ A) 0 1
- ☐ B) 1 2
- ☐ C) 0 1 2
- ☐ D) None



✓ 50. What type of loop is preferred when you must execute at least once regardless of condition? *1/1

- ☐ A) for
- ☐ B) while
- ☒ C) do-while
- ☐ D) switch



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