

ASSIGNMENT-3

DATE :22-11-2025

■ 20 MCQs on Loops (C Language)
(Answers given separately at the end)

1. What is the output?

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

- A) 1 2 3
- B) 0 1 2
- C) 0 0 0
- D) No output

2. Which of the following is a pre-test loop?

- A) for
- B) do-while
- C) switch
- D) goto

3. What is the output?

```
for(int i=1; i<=4; i=i+2)  
    printf("%d ", i);
```

- A) 1 2 3 4
- B) 1 3
- C) 2 4
- D) 3 1

4. Which loop executes at least once?

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

5. What will this code print?

```
int i = 3;  
while(i >= 1){  
    printf("%d ", i--);  
}
```

- A) 3 2 1
- B) 1 2 3
- C) 3 3 3
- D) Infinite loop

6. Which keyword stops the loop immediately?

- A) skip
- B) break
- C) stop
- D) return

7. What is the output?

```
int i = 1;  
do{  
    printf("%d ", i);  
    i += 2;  
}while(i <= 5);
```

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

8. Which loop is best when the number of iterations is unknown?

- A) for

B) while

C) do-while

D) switch

9. What is the output?

int i;

for(i = 2; i <= 8; i += 2)

printf("%d ", i);

A) 1 2 3 4 5

B) 2 4 6 8

C) 8 6 4 2

D) None

10. Which one creates an infinite loop?

A) for(;)

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

C) while(0)

D) do{} while(0)

11. Output?

int i = 5;

while(--i > 1){

printf("%d ", i);

}

A) 5 4 3 2 1

B) 4 3 2

C) 3 2 1

D) 2 3 4

12. What does continue do?

A) ends loop

B) skips next loop

C) skips current iteration

D) restarts loop

13. Output?

int i;

for(i=1; i<4; i++);

printf("%d", i);

A) 1

B) 3

C) 4

D) Error

14. Which loop checks condition first?

A) do-while

B) while

C) switch

D) if

15. Output?

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

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

printf("*");

A) ***

B) * * * *

C) * * *

D) *****

16. The default increment in a for loop is—

A) +2

B) +3

C) +1

D) No default

17. Output?

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

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

18. What does this loop print?

```
for(int i=3;i>0;i--)
    printf("%d ", i);
```

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

19. Which of the following is a post-test loop?

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

20. Output?

```
int i = 1, sum = 0;
do{
    sum += i;
    i++;
}while(i <= 3);
printf("%d", sum);
```

- A) 3
- B) 5
- C) 6
- D) 10

Answers:

1.B 2.A 3.B 4.C 5.A 6.B 7.A 8.B 9.B 10.A 11.B 12.C 13.C 14.B 15.B 16.C 17.A 18.C 19.C 20.C