

1) prepare 20 mcq's on loops?

1. Which loop in C always executes at least once.
a) for b) while c) do-while d) if

Ans: c - do-while.

2. What is the correct syntax of a for loop?

a) for (i=0; i<n; i++)

b) for (i=0; i<n)

c) for i=0; i<n; i++

d) loop (i to n)

Ans: a - for (i=0; i<n; i++)

3. How many times will the loop run?

C

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

a) 0

b) 1

c) 5

d) Infinite

Ans: b - 1

4. Which statement is used to exit from a loop?

a) exit

b) break

c) stop

d) return

Ans: b - break.

5) Which keyword skips the current iteration of a loop?

a) next

b) skip

c) continue

d) break

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Ans: c - continue

6) what will be the output?

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

- a) 0 1 2
- b) 1 2 3
- c) 1 2 3 4
- d) No output

Ans: b - 1 2 3

7) what is the output?

```
C
for (int i=1; i<5; i+=2)
    printf("%d", i);
```

- a) 1 2 3 4
- b) 1 3
- c) 2 4
- d) 1 2 4

Ans: b - 1 3

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

- a) for
- b) while
- c) do-while
- d) switch

Ans: b - while

9) What type of loop is possible in C?

- a) Entry - controlled
- b) Exit - controlled
- c) Both a and b

10. what is the output?

```
C
int i = 5;
while (i > 0) {
    printf("Hello");
}
```

- a) Hello printed once
b) Hello printed infinite
c) No output
d) Error

Ans: c - no output

11) what will this produce?

```
C
int i;
for (i = 1; i <= 3; i++)
{
    if (i == 2) break;
    printf("%d ", i);
}
```

- a) 1 2 b) 1 c) 2 d) 1 3

Ans: b = 1

12) what is the output?

```
C
for (int i = 0; i < 3; i++) {
    continue;
    printf("Hi");
}
```

- a) Hi Hi Hi b) no output c) Hi d) compilation error

Ans: b - no output.

13) Infinite loop example:

- a) for (;;) b) while (1) c) do {} while (1); d) All of these

Ans: d - All of these.

14) what is the output?

```
C
int i = 1;
do {
    printf("%d ", i);
} while (i > 5);
```

Ans a) 1 b) NO output c) 1 2 3 4 5 d) Infinite loop

Ans a - 1

15) In which loop initialization can be done outside the loop?

a) for b) while c) do-while d) Both b and c.

Ans: d - Both b & c

16) Which loop checks the condition first?

a) while b) do-while c) for d) Both a and c

Ans: d - Both a & c

17) output?

```
C
for (int i = 1; i <= 10; i++) {
    if (i % 2 == 0)
        continue;
    printf ("%d ", i);
}
```

a) 2 4 6 8 10

b) 1 3 5 7 9

c) 1 2 3 4 5

d) 10 9 8 7 6

Ans: b - 1 3 5 7 9.

18) which of the following is true for loops?

a) They reduce code repetition.

b) They increase productivity.

c) They execute block multiple times.

d) All of the above.

Ans: d - All of the above.

19) output?

```
C
int i = 1;
while (i <= 0) {
```

a) C

b) C printed infinite

c) no output

d) Error

Ans: C - no output.

90) Which of the following loops in C is exit-controlled

a) for

b) while

c) do-while

d) All exits are controlled.

Ans: C = do-while.