

Q2 Nov 2024  
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

6) What will be the output?

```
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?

```
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?

```
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?

```
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?

```
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?

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

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?

```
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?

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

- a) C
- b) C printed infinite
- c) no output

d) Error

Ans: C - no output.

Ques: 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.