

- 1) 20 mcqs on loops concept.
- 1) What is the purpose of a loop in programming?
- a) To execute a block of code once
  - b) To execute a block of code multiple times
  - c) To skip a block of code
  - d) To terminate a program.
- 2) What are the three types of loops in C?
- a) for, while, do-while
  - b) if, else, switch
  - c) break, continue, goto
  - d) None
- 3) What is the syntax of a for loop in C?
- a) for (init; condition; increment) {code}
  - b) for (condition; init; increment) {code}
  - c) for (init; increment; condition) {code}
  - d) None
- 4) What is the purpose of the init statement in a for loop?
- a) To initialize the loop variable
  - b) To check the loop condition
  - c) To increment the loop variable
  - d) To terminate the loop
- 5) What is the purpose of the condition statement in a for loop?
- a) To initialize the loop variable
  - b) To check the loop condition
  - c) To increment the loop variable
  - d) To terminate the loop

- b. what is statement
- a) To initialize
  - b) To check
  - c) To increment
  - d) To terminate
7. what
- a) while
  - b) while
  - c) while
8. What is statement
- a)
  - b)
  - c)
  - d)

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6. What is the purpose of the increment statement in a for loop?

  - a) To initialize the loop variable
  - b) To check the loop condition
  - c) To increment the loop variable
  - d) To terminate the loop

7. What is the syntax of a while loop inc?

  - a) while (condition) {code}
  - b) while (init; condition; increment) {code}
  - c) while (code) {condition}
  - d) None

8. What is the purpose of the condition statement in a while loop?

  - a) To initialize the loop variable
  - b) To check the loop condition
  - c) To increment the loop variable
  - d) To terminate the loop

9. What is the syntax of a do-while loop inc?

  - a) do {code} while (condition);
  - b) do (condition) {code}
  - c) do {code} while (init; condition; increment);
  - d) None

10. What is the difference between a while loop and a do-while loop?

  - a) The while loop checks the condition before executing the code, while the do-while loop checks the condition after executing the code.
  - b) The while loop checks the condition after executing the loops, while the do-while loop checks the condition before executing

1. what is the purpose of the break statement in a loop?  
a) To skip the current iteration  
b) To skip the entire loop  
c) To terminate the loop  
d) To restart the loop
2. what is the purpose of the continue statement in a loop?  
a) To terminate the loop  
b) To skip the current iteration  
c) To continue to the next iteration  
d) To restart the loop
3. what is the infinite loop?  
a) A loop that runs forever  
b) A loop that runs a fixed number of times  
c) A loop that runs until a condition is met  
d) None
4. How do you create an infinite loop in C?  
a) while(1){code}  
b) for(;;){code}  
c) do{code}while(1);  
d) All of the above
5. what is the output of the following code?  

```
#include <stdio.h>
int main(){
    int i=0;
    while(i<5){
        printf("%d", i);
        i++;
    }
    return 0;
}
```

a) 01234 b) 12345 c) 012345 d) None  
16. what is the output of the following code?  

```
int i=0;
do {
    printf("%d", i);
    i++;
} while (i<5);
```

a) 01234 b) 12345 c) 012345 d) None  
17. what is the output of the following code?  

```
for (int i=0; i<5; i++) {
    printf ("%d", i);
```

a) 01234 b) 12345 c) 012345 d) None  
18. what is the purpose of the loop variable  
in a for loop?

- a) To initialize the loop
- b) To check the loop condition
- c) To increment the loop
- d) To store the current iteration number

19. can a loop be nested inside another loop?  
 a) yes b) no c) maybe d) None

20) what is the maximum number of loops  
that can be nested in c?

- a) 1
- b) 2
- c) 3
- d) No limit