



# Top 20 C programming language MCQs with answer

Topics : [C Interview Questions](#)  
Written on [November 23, 2023](#)

There are 20 multiple-choice questions (MCQs) related to the C programming language along with their answers:

**1. What does the acronym "C" stand for in C programming?**

- a) Computer
- b) Common
- c) Code
- d) Central

**Answer: b) Common**

**2. Which of the following is a valid identifier in C?**

- a) 2variable
- b) \_variable
- c) switch
- d) float

**Answer: b) \_variable**

**3. What is the size of the int data type in C on a 32-bit system?**

- a) 2 bytes
- b) 4 bytes
- c) 8 bytes
- d) Depends on the compiler

**Answer: b) 4 bytes**

**4. In C, what is the purpose of the typedef keyword?**

- a) To define a new type
- b) To declare a variable
- c) To include a header file
- d) To create a pointer

**Answer: a) To define a new type**

**5. What is the output of the following code?**

```
#include <stdio.h>
```

```
int main() {  
    printf("%d", sizeof(5.5));  
    return 0;  
}
```

- a) 2
- b) 4
- c) 8
- d) Compiler Error

**Answer: b) 4**

**6. Which header file is used for dynamic memory allocation in C?**

- a) `stdlib.h`
- b) `math.h`
- c) `string.h`
- d) `stdio.h`

**Answer: a) `stdlib.h`**

**7. What is the purpose of the `break` statement in C?**

- a) Exits the program
- b) Exits the loop or switch statement
- c) Skips the rest of the code inside a loop
- d) Jumps to a specific label

**Answer: b) Exits the loop or switch statement**

**8. How do you declare a constant in C using `#define`?**

- a) `constant = 5;`
- b) `define constant 5`
- c) `#define constant 5`
- d) `const constant = 5;`

**Answer: c) `#define constant 5`**

**9. What is the purpose of the `getchar()` function in C?**

- a) Reads a character from the keyboard
- b) Prints a character to the console
- c) Clears the screen
- d) Closes a file

**Answer: a) Reads a character from the keyboard**

**10. Which symbol is used for the modulus operation in C?**

- a) `%`
- b) `/`
- c) `*`
- d) `&`

**Answer: a) `%`**

**11. What is the output of the following code?**

```
#include <stdio.h>
```

```
int main() {  
    int i = 10;  
    printf("%d", i++);  
    return 0;  
}
```

- a) 10
- b) 11
- c) 12
- d) Compiler Error

**Answer: a) 10**

**12. How do you initialize an array in C?**

- a) `int arr[];`
- b) `int arr[5] = {1, 2, 3, 4, 5};`
- c) `arr = {1, 2, 3, 4, 5};`
- d) `int arr[5];`

**Answer: b) `int arr[5] = {1, 2, 3, 4, 5};`**

**13. What is the purpose of the static keyword in C?**

- a) Declares a global variable
- b) Allocates dynamic memory
- c) Specifies a file scope
- d) Initializes a variable

**Answer: c) Specifies a file scope**

**14. What is the role of the void keyword in a function declaration?**

- a) Indicates that the function returns no value
- b) Specifies the return type of the function
- c) Declares a variable
- d) Marks the function as deprecated

**Answer: a) Indicates that the function returns no value**

**15. How do you close a file in C?**

- a) `fclose(file);`
- b) `close(file);`
- c) `file.close();`
- d) `closeFile(file);`

**Answer: a) fclose(file);**

**16. What is the purpose of the sizeof operator in C?**

- a) Returns the size of a variable
- b) Returns the size of a function
- c) Returns the size of a datatype
- d) Returns the size of a pointer

**Answer: a) Returns the size of a variable**

**17. Which of the following is the correct syntax for a for loop in C?**

- a) for (i = 0; i < 10; i++)
- b) for i = 0; i < 10; i++
- c) for (int i = 0; i < 10)
- d) for (i < 10; i++)

**Answer: a) for (i = 0; i < 10; i++)**

**18. What is the role of the scanf function in C?**

- a) Prints formatted output to the console
- b) Reads formatted input from the console
- c) Allocates dynamic memory
- d) Opens a file for reading

**Answer: b) Reads formatted input from the console**

**19. How do you access the value stored at a pointer in C?**

- a) \*ptr
- b) &ptr
- c) ptr.value
- d) ptr->value

**Answer: a) \*ptr**

**20. What is the purpose of the malloc function in C?**

- a) Allocates memory for a variable
- b) Frees allocated memory
- c) Initializes memory to zero
- d) Declares a variable

**Answer: a) Allocates memory for a variable**