

C MCQs - 6

Topics : [C](#)

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51. Which of the following is true regarding the `sizeof` operator in C?

- a) It is a preprocessor directive
- b) It returns the size of a variable in bits
- c) It can be used with any data type including user-defined types
- d) It can be used to determine the size of dynamic memory allocations

Answer: c) It can be used with any data type including user-defined types

52. What will be the output of the following code?

```
#include <stdio.h>
int main() {
    int arr[5] = {1, 2, 3, 4, 5};
    printf("%d\n", arr[5]);
    return 0;
}
```

- a) 1
- b) 5
- c) Compiler error
- d) Undefined behavior

Answer: d) Undefined behavior

53. In C, what is the purpose of the `continue` statement?

- a) To terminate the program
- b) To exit the loop and transfer control to the loop's condition check
- c) To skip the remaining code in the loop and continue with the next iteration
- d) To jump to a labeled statement

Answer: c) To skip the remaining code in the loop and continue with the next iteration

54. Which function is used to compare two strings in C?

- a) strcmp()
- b) strcmp()
- c) strcmpare()
- d) compare()

Answer: b) strcmp()

55. What will be the output of the following code?

```
#include <stdio.h>
int main() {
    int x = 5, y = 10;
    if (x = y)
        printf("x is equal to y\n");
    else
        printf("x is not equal to y\n");
    return 0;
}
```

- a) x is equal to y
- b) x is not equal to y
- c) Compiler error
- d) No output

Answer: a) x is equal to y

56. Which header file is required to use the pow() function in C?

- a) <stdio.h>
- b) <stdlib.h>
- c) <math.h>
- d) <ctype.h>

Answer: c) <math.h>

57. What will be the output of the following code?

```
#include <stdio.h>
int main() {
    int x = 5, y = 10;
    x ^= y;
    y ^= x;
    x ^= y;
    printf("x = %d, y = %d\n", x, y);
    return 0;
}
```

- a) x = 5, y = 10

- b) x = 10, y = 5
- c) x = 0, y = 0
- d) Compiler error

Answer: b) x = 10, y = 5

58. What does the `isdigit()` function in C do?

- a) Checks if a character is a digit
- b) Converts a character to its lowercase equivalent
- c) Converts a character to its uppercase equivalent
- d) Checks if a character is a whitespace character

Answer: a) Checks if a character is a digit

59. What will be the output of the following code?

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

- a) 5, 7
- b) 5, 6
- c) 6, 6
- d) 6, 7

Answer: b) 5, 6

60. In C, what is the purpose of the `goto` statement?

- a) To exit a loop
- b) To transfer control to a labeled statement
- c) To skip the remaining code in a loop and continue with the next iteration
- d) To terminate the program

Answer: b) To transfer control to a labeled statement