

C MCQs - 11

Topics : [C](#)

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102. What is the time complexity of the bubble sort algorithm used in the provided code?

- a) $O(n)$
- b) $O(n \log n)$
- c) $O(n^2)$
- d) $O(\log n)$

****Answer: c) $O(n^2)$ ****

103. In the provided code, what is the purpose of the `printArray` function?

- a) It sorts the array using bubble sort.
- b) It searches for an element in the array.
- c) It prints the elements of the array.
- d) It calculates the sum of elements in the array.

****Answer: c) It prints the elements of the array.****

104. Which of the following best describes the purpose of the `bubbleSort` function in the provided code?

- a) It prints the elements of the array.
- b) It searches for an element in the array.
- c) It sorts the array in ascending order using the bubble sort algorithm.
- d) It calculates the sum of elements in the array.

****Answer: c) It sorts the array in ascending order using the bubble sort algorithm.****

105. What will be the output of the following code snippet?

```
#include <stdio.h>
int main() {
    int arr[5];
```

```
    printf("%d\n", arr[0]);  
    return 0;  
}
```

- a) 0
- b) Random garbage value
- c) Compiler error
- d) Segmentation fault

****Answer: b) Random garbage value****

106. In C, what is the purpose of the `memset()` function?

- a) It allocates memory dynamically.
- b) It fills a block of memory with a particular value.
- c) It copies a block of memory to another block.
- d) It deallocates memory.

****Answer: b) It fills a block of memory with a particular value.****

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

```
#include <stdio.h>  
int main() {  
    char str[] = "Hello";  
    printf("%c\n", str[4]);  
    return 0;  
}
```

- a) H
- b) e
- c) l
- d) Undefined behavior

****Answer: d) Undefined behavior****

108. Which of the following functions is used to concatenate two strings in C?

- a) `strcat()`
- b) `strcmp()`
- c) `strcpy()`
- d) `strlen()`

****Answer: a) `strcat()`****

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

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

- a) 0
- b) 1
- c) 5
- d) 10

****Answer: a) 0****

110. What is the purpose of the malloc() function in C?

- a) It concatenates two strings.
- b) It fills a block of memory with a particular value.
- c) It allocates memory dynamically.
- d) It searches for an element in the array.

****Answer: c) It allocates memory dynamically.****

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