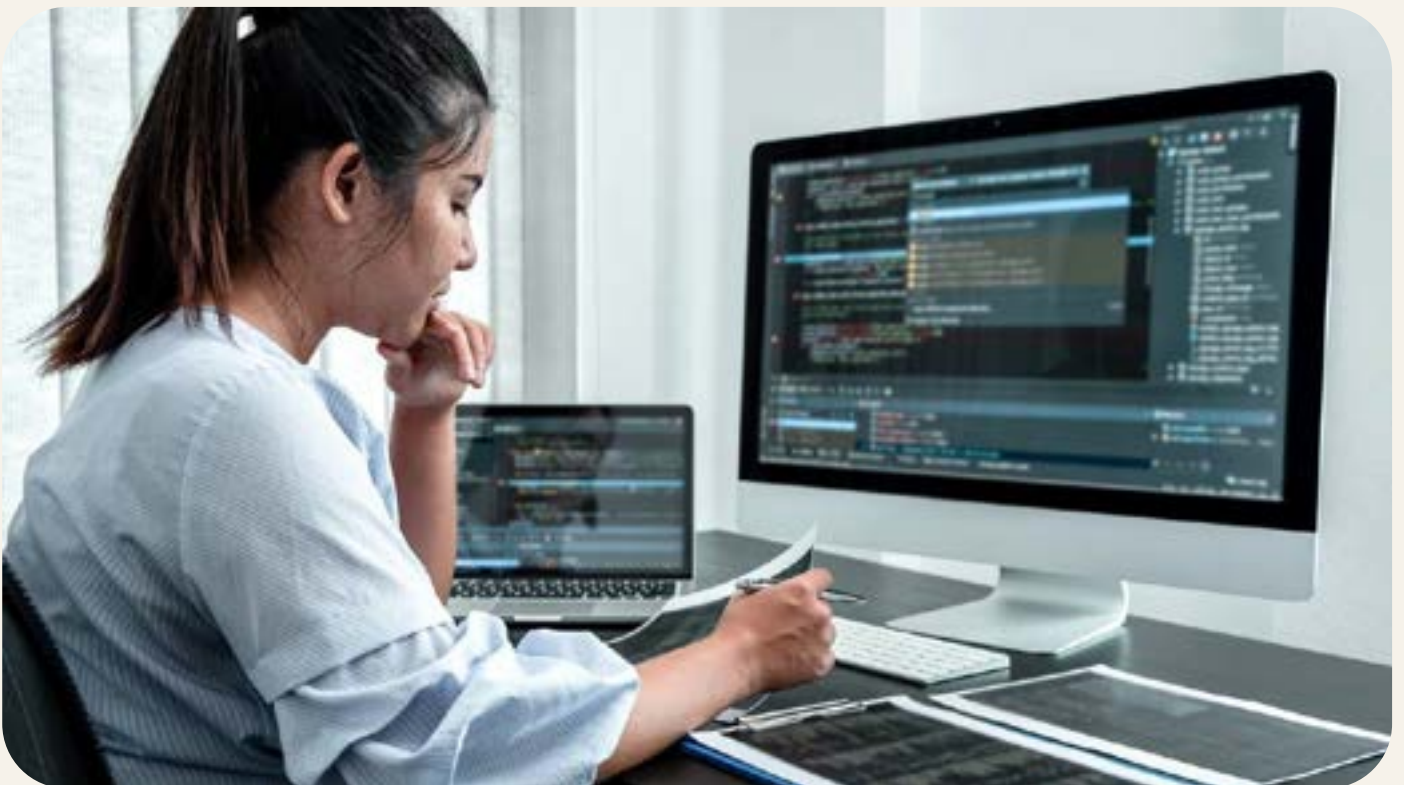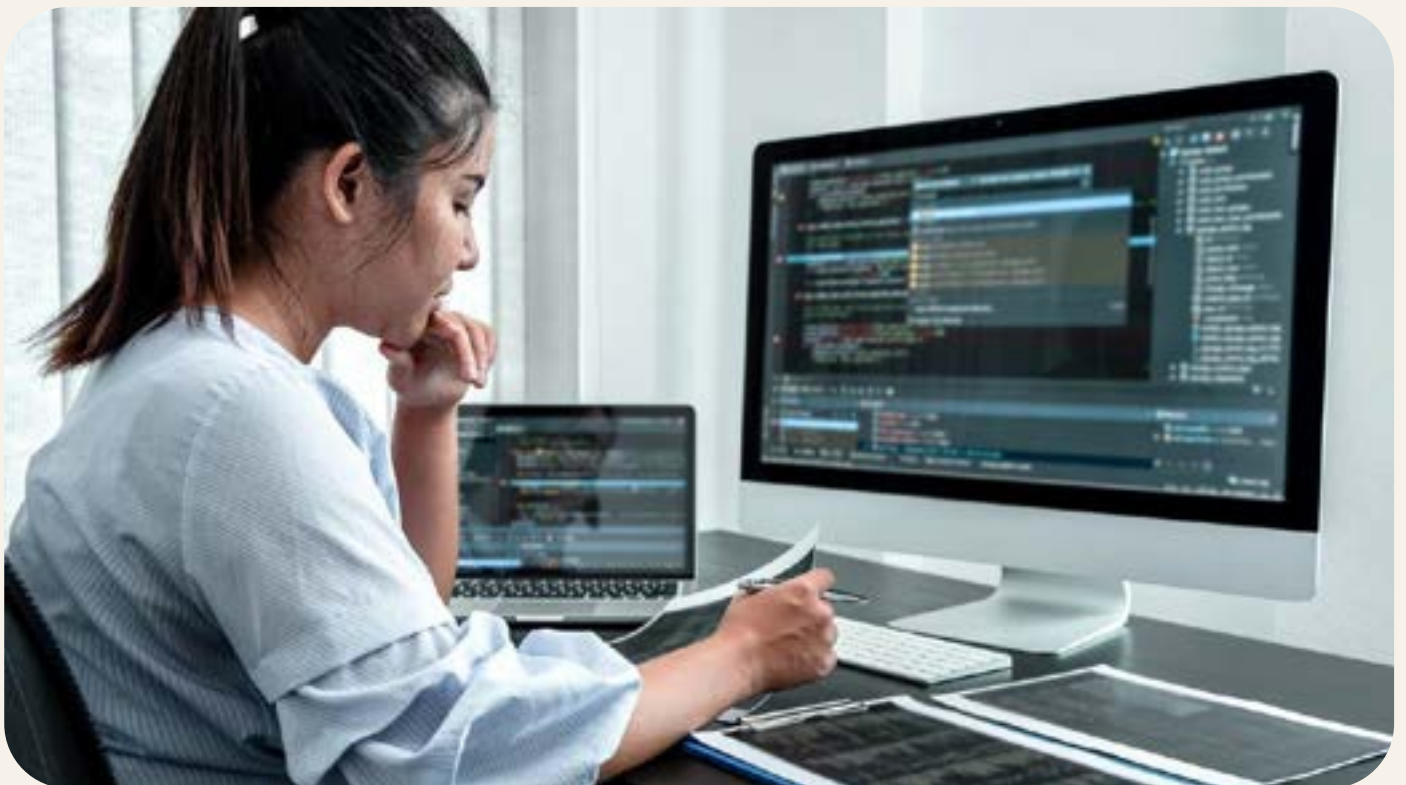# C Programming Interview Questions With Answers

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As you prepare for your c programming interview, don't let c programming assignment hold you back. With the help of a reliable [c programming assignment help](#) service, you can focus on acing your interview and landing your dream job. Get the support you need to excel in both your coursework and career.

Introduction

We've compiled a list of the top 10 interview questions that are commonly asked in C programming interviews, along with detailed answers and explanations to help you understand the concepts and techniques behind them. Whether you're a beginner or an experienced c programmer, our guide will provide you with valuable insights and strategies to help you land your dream job.

Question 1: What is a pointer in C programming?

Answer: A pointer is a variable that holds the memory address of another variable. It allows you to manipulate the values stored in memory by accessing them directly through their memory addresses.

Question 2: What is the difference between ++i and i++?

Answer: ++i (pre-increment) increments the value of i and returns the new value, while i++ (post-increment) returns the current value of i and then increments it.

Question 3: What is the difference between a struct and a union in C?

Answer: A struct is a collection of variables of different data types, whereas a union is a collection of variables that share the same memory space. In a union, only one member can be accessed at a time.

Question 4: How do you allocate memory dynamically in C?

Answer: You can use the malloc() function to allocate memory dynamically in C. It returns a void pointer to the allocated memory, which can be cast to the appropriate type.

Question 5: What is a static variable in C?

Answer: A static variable in C is a variable that retains its value even after the function it is declared in has returned. It is initialized only once and persists until the program terminates.

Question 6: What is recursion in C programming?

Answer: Recursion is a technique in which a function calls itself. It is often used to solve problems that can be broken down into smaller sub-problems.

Question 7: What is a function pointer in C?

Answer: A function pointer is a variable that holds the address of a function. It allows you to pass a function as an argument to another function or to assign a function to a variable.

Question 8: What is the difference between an array and a pointer in C?

Answer: An array is a collection of variables of the same data type, while a pointer is a variable that holds the memory address of another variable. An array name is a constant pointer to the first element of the array.

Question 9: What is a macro in C programming?

Answer: A macro in C is a preprocessor directive that defines a symbol and replaces all occurrences of that symbol with the specified value during compilation.

Question 10: What is the difference between a stack and a heap in memory allocation?

Answer: The stack is a region of memory used for storing function call frames and local variables.The heap is a region of memory used for dynamic memory allocation.