Data Types:

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Correct answer: a) A data type with no value 13. What does the 'unsigned' keyword do when applied to an integer Which of the following is a basic data type in C? data type? 0 a) Array a) Allows negative values 0 b) Integer 0 b) Increases the range of positive values c) Function 0 c) Reduces the size of the integer d) Structure d) Makes it a floating-point number Correct answer: b) Integer Correct answer: b) Increases the range of positive What is the size of the 'int' data type in C? values a) 2 bytes 0 14. Which type can hold a value up to 3.4e+38 in C? b) 4 bytes 0 a) int 0 \circ c) 8 bytes 0 b) double d) 1 byte 0 c) char Correct answer: b) 4 bytes d) long Which of the following data types can store decimal values? Correct answer: b) double a) int 0 15. Which of the following is a valid way to declare an integer 0 b) char variable? 0 c) float 0 a) int var; d) short 0 b) integer var; Correct answer: c) float 0 c) int var = 10; What is the range of an 'unsigned int' in C? d) b) and c) a) 0 to 32767 0 Correct answer: a) int var; b) 0 to 65535 0 c) -32768 to 32767 0 0 d) 0 to 4294967295 Correct answer: d) 0 to 4294967295 Which of the following data types is used to store large numbers 2. Operators: in C? 0 a) char Which operator is used to access a member of a structure 0 b) double through a pointer? c) long \circ 0 a). d) float 0 b) -> Correct answer: c) long c) & 0 What is the correct size of a 'char' type in C? d) * a) 2 bytes 0 Correct answer: b) -> 0 b) 1 byte Which operator is used to check if two values are equal in C? 0 c) 4 bytes 0 a) == d) 8 bytes 0 b) =Correct answer: b) 1 byte 0 c) != What is the default value of an uninitialized 'int' variable in C? $d) \ll$ 0 Correct answer: a) == 0 b) Undefined Which operator in C is used for division? 0 c) Garbage value 0 a) / 0 d) NULL b) * 0 Correct answer: c) Garbage value 0 c) + Which of the following is a non-primitive data type in C? 0 d) % a) int Correct answer: a) / b) char \circ What does the '&&' operator represent in C? 4. 0 c) float a) OR operator 0 0 d) struct b) AND operator 0 Correct answer: d) struct 0 c) NOT operator What does the 'long long' data type represent in C? 0 d) Assigns value a) A larger floating-point number Correct answer: b) AND operator b) A larger integer number 0 Which operator is used to get the address of a variable in C? c) A larger character set 0 a) * d) A double-precision floating-point number 0 b) & Correct answer: b) A larger integer number 0 c)# 10. What is the size of a 'double' data type in C? 0 d) \$ 0 a) 2 bytes Correct answer: b) & b) 4 bytes 0 Which of the following operators is used to increment a value c) 8 bytes 0 by 1? d) 16 bytes 0 a) --Correct answer: c) 8 bytes 0 b) == 11. Which of the following types is used for storing boolean values 0 c) ++ in C? 0 0 a) bool Correct answer: c) ++ \circ b) int What is the output of the expression 5 % 2? 0 c) char 0 a) 2 d) _Bool 0 b) 1 Correct answer: d) _Bool 0 c) 5 12. Which of the following defines the void data type in C? 0 d) 0 a) A data type with no value Correct answer: b) 1 0 b) A data type to store any number What will the expression '5 / 2' return in C? c) A pointer to any type COMPILED BY: Er. Gaurab Mishra (HOD COMPUTER)

d) A data type for characters

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0
                     a) 2.5
                                                                                                      0
                                                                                                           a) break
                     b) 2
                0
                                                                                                      0
                                                                                                           b) continue
                0
                     c) 3
                                                                                                           c) exit
                     d) 5
                0
                                                                                                      0
                                                                                                           d) return
                      Correct answer: b) 2
                                                                                                           Correct answer: a) break
          Which of the following is a relational operator in C?
                                                                                                What is the correct syntax for a 'while' loop in C?
                                                                                                           a) while condition { }
                                                                                                           b) while (condition) { }
                     b) &
                0
                                                                                                      0
                                                                                                           c) while [condition] { }
                0
                     c) ==
                                                                                                           d) while {condition}
                \circ
                     d) *
                                                                                                           Correct answer: b) while (condition) { }
                      Correct answer: c) ==
     10. Which operator is used to multiply two numbers in C?
                                                                                                Which of the following is used to declare a function prototype in
                                                                                                C?
                0
                0
                     b) %
                                                                                                           a) void function();
                0
                     c) *
                                                                                                      0
                                                                                                           b) function void():
                                                                                                           c) int function;
                      d) +
                0
                      **Correct answer: c) ***
                                                                                                           d) int function();
     11. Which of the following is the correct assignment operator in C?
                                                                                                           Correct answer: a) void function();
                                                                                                Which header file is required for using the 'printf' and 'scanf'
                                                                                                functions in C?
                0
                     b) =
                                                                                                           a) conio.h
                0
                     c) ==
                0
                                                                                                      0
                                                                                                           b) math.h
                      d) +
                                                                                                           c) stdio.h
                                                                                                      0
                      Correct answer: b) =
     12. Which operator is used for logical negation in C?
                                                                                                           d) string.h
                                                                                                           Correct answer: c) stdio.h
                0
                                                                                                What will be the output of the following C code?
                0
                      b) ~
                     c) ^
                0
                     d) &&
                0
                                                                                                int a = 5, b = 2;
                      Correct answer: a)!
                                                                                                printf("%d", a / b);
     13. What does the 'sizeof' operator do in C?
                    a) Calculates the size of the operand
                                                                                                      0
                                                                                                           a) 2.5
                     b) Returns the address of the operand
                                                                                                      0
                                                                                                           b) 2
                     c) Computes the value of the operand
                0
                                                                                                      0
                                                                                                           c) 5
                      d) None of the above
                                                                                                      0
                                                                                                           d) 0
                      Correct answer: a) Calculates the size of the
                                                                                                           Correct answer: b) 2
                      operand
                                                                                                Which of the following is the correct syntax for a 'for' loop in C?
     14. Which operator is used for bitwise AND in C?
                                                                                                           a) for (int i = 0; i < 10; i++)
                                                                                                      0
                0
                                                                                                           b) for i = 0 to 10
                     b) &
                0
                                                                                                           c) for (int i: 0 to 10)
                                                                                                      0
                0
                     c) ^
                                                                                                           d) None of the above
                      d) ~
                0
                                                                                                           Correct answer: a) for (int i = 0; i < 10; i++)
                      Correct answer: b) &
                                                                                                How is memory allocated dynamically in C?
     15. Which operator is used to access elements of an array in C?
                                                                                                           a) malloc()
                                                                                                      0
                0
                      a).
                                                                                                      0
                                                                                                           b) free()
                0
                     b) ->
                                                                                                      0
                                                                                                           c) alloc()
                0
                     c) []
                                                                                                           d) realloc()
                     d) {}
                0
                                                                                                           Correct answer: a) malloc()
                      Correct answer: c) []
                                                                                           10. What is the keyword used to define a constant value in C?
                                                                                                           a) const
                                                                                                      0
                                                                                                      0
                                                                                                           b) constant
                                                                                                           c) #define
                                                                                                      0
3. Fundamentals:
                                                                                                           d) static
                                                                                                           Correct answer: a) const
                                                                                           11. Which of the following is the correct syntax for using a
           What is the output of the following C code?
                                                                                                comment in C?
                                                                                                      0
                                                                                                          a) // comment
           int main() {
                                                                                                           b) /* comment */
                                                                                                      0
             printf("%d", 10 / 3);
                                                                                                           c) ** comment
                                                                                                      0
             return 0;
                                                                                                           d) Both a) and b)
                                                                                                           Correct answer: d) Both a) and b)
                                                                                           12. What does the 'return' statement do in C?
                                                                                                          a) Exits the program
                                                                                                      0
                0
                     a) 3
                                                                                                           b) Returns a value to the calling function
                     b) 3.333
                \circ
                                                                                                      0
                                                                                                           c) Prints a value
                0
                     c) 0
                                                                                                           d) None of the above
                      d) 10
                0
                                                                                                           Correct answer: b) Returns a value to the calling
                      Correct answer: a) 3
           Which function is used to read a character from the user in C?
                                                                                                           function
                                                                                           13. What will the following code print?
                      a) get()
                0
                      b) input()
                      c) getchar()
                0
                                                                                                printf("%d", 10 / 4);
                      d) scanf()
                0
                      Correct answer: c) getchar()
                                                                                                      0
                                                                                                           a) 2
          How can we stop a loop in C?
                                                                                                      0
                                                                                                           b) 2.5
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0
                      c) 0
                                                                                                            d) if (condition) then {}
                                                                                                             Correct answer: b) if (condition) {}
                      d) 4
                0
                                                                                                 What will be printed by the following C code?
                      Correct answer: a) 2
     14. Which of the following operators is used to check if two values
           are unequal?
                                                                                                 int i = 0;
                                                                                                  while (i < 3) {
                0
                      b) !=
                                                                                                    printf("%d", i);
                0
                      c) <
                                                                                                    i++;
                0
                      d) <=
                      Correct answer: b) !=
     15. How are arrays declared in C?
                                                                                                             a) 012
                                                                                                       0
                0
                     a) int arr[10];
                                                                                                             b) 123
                     b) int[10] arr;
                0
                                                                                                            c) 0
                                                                                                       \circ
                0
                      c) array int[10];
                                                                                                             d) Error
                      d) arr[10] int;
                0
                                                                                                             Correct answer: a) 012
                      Correct answer: a) int arr[10];
                                                                                                 What is the output of the following code?
4. Control Structures:
                                                                                                 int x = 4;
                                                                                                 if(x == 4) \{
           What is the output of the following C code?
                                                                                                    printf("True");
                                                                                                  } else {
                                                                                                    printf("False");
           int x = 5;
           if(x > 3) {
             printf("Hello");
                                                                                                             a) True
                                                                                                       0
                                                                                                            b) False
                                                                                                       \circ
                                                                                                            c) Nothing
                0
                      a) 5
                                                                                                             d) Error
                      b) Hello
                0
                                                                                                             Correct answer: a) True
                0
                      c) Nothing
                                                                                                 Which loop will execute at least once in C?
                0
                      d) Error
                                                                                                       0
                                                                                                            a) for
                      Correct answer: b) Hello
                                                                                                       0
                                                                                                             b) while
           Which of the following statements is used to exit a loop in C?
                                                                                                       0
                                                                                                             c) do-while
                      a) continue
                                                                                                            d) None of the above
                                                                                                       0
                0
                      b) break
                                                                                                             Correct answer: c) do-while
                0
                      c) exit
                                                                                            10. What will be the output of the following C code?
                0
                      d) return
                      Correct answer: b) break
           What will the following C code print?
                                                                                                 int x = 10;
                                                                                                 if(x > 5)
                                                                                                    if(x < 20)
           int x = 5:
                                                                                                      printf("In range");
           switch(x) {
             case 5:
                printf("Yes");
                                                                                                       0
                                                                                                             a) In range
                break;
                                                                                                       0
                                                                                                            b) 10
             default:
                                                                                                             c) Error
                printf("No");
                                                                                                             d) Nothing
                                                                                                             Correct answer: a) In range
                                                                                            11. Which of the following statements is true for a switch statement
                                                                                                 in C?
                0
                      a) Yes
                                                                                                             a) It can only have 1 case
                      b) No
                0
                                                                                                       0
                                                                                                            b) The case values must be constants
                0
                      c) Error
                                                                                                             c) You cannot have a break statement
                      d) Nothing
                                                                                                            d) It works only for integer variables
                      Correct answer: a) Yes
                                                                                                             Correct answer: b) The case values must be
          How do you represent an 'else if' condition in C?
                                                                                                             constants
                      a) else if (condition)
                                                                                            12. What does the following loop print?
                      b) else if condition
                0
                      c) elif (condition)
                0
                      d) else (condition)
                0
                                                                                                 for(int i = 0; i < 5; i++) {
                      Correct answer: a) else if (condition)
                                                                                                    printf("%d", i);
           What does the 'continue' statement do inside a loop in C?
                     a) Exits the loop
                      b) Skips the current iteration and continues to the
                0
                                                                                                             a) 01234
                      next iteration
                                                                                                            b) 12345
                                                                                                       0
                0
                      c) Breaks the loop completely
                                                                                                       0
                                                                                                             c) 012
                      d) Restarts the loop
                                                                                                       0
                                                                                                             d) Error
                      Correct answer: b) Skips the current iteration
                                                                                                             Correct answer: a) 01234
                      and continues to the next iteration
                                                                                            13. In a for loop, which part is executed only once?
          Which of the following is the correct syntax for an 'if' statement
                                                                                                            a) Initialization
           in C?
                                                                                                            b) Condition
                                                                                                       0
                      a) if condition {}
                0
                                                                                                            c) Increment
                      b) if (condition) {}
                0
                                                                                                            d) All parts are executed once
                      c) if condition then {}
                                                                                                             Correct answer: a) Initialization
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14. What is the output of the following C code?
                                                                                                   What is the correct index of the last element in an array of size
                                                                                                   5?
                                                                                                         0
                                                                                                              a) 5
           int i = 10;
                                                                                                              b) 4
                                                                                                         0
           while(i--) {
             printf("%d", i);
                                                                                                         0
                                                                                                              c) 3
                                                                                                         0
                                                                                                              d) 6
                                                                                                              Correct answer: b) 4
                                                                                                   Which function is used to determine the length of a string in C?
                 0
                      a) 9
                                                                                                         0
                                                                                                              a) length()
                 0
                      b) 10
                                                                                                              b) size()
                      c) 9876543210
                 0
                                                                                                         0
                                                                                                              c) strlen()
                      d) Error
                                                                                                              d) sizeof()
                      Correct answer: c) 9876543210
                                                                                                              Correct answer: c) strlen()
     15. What is the purpose of the 'goto' statement in C?
                                                                                                   How do you initialize an array of 5 integers to all zeros?
                      a) It is used to jump to a specific point in the
                                                                                                              a) int arr[5] = \{0\};
                                                                                                         0
                      program
                                                                                                         0
                                                                                                              b) int arr[5] = \{\};
                      b) It is used to define a function
                                                                                                              c) int arr[5] = \{0, 0, 0, 0, 0, 0\};
                                                                                                         0
                      c) It is used to declare variables
                 0
                                                                                                              d) None of the above
                      d) It is used to declare constants
                                                                                                              Correct answer: a) int arr[5] = \{0\};
                      Correct answer: a) It is used to jump to a specific
                                                                                             10. What will the following code print?
                      point in the program
                                                                                                   int arr[5] = \{1, 2, 3, 4, 5\};
                                                                                                   printf("%d", arr[3]);
5. Arrays:
                                                                                                         0
                                                                                                              a) 1
                                                                                                         0
                                                                                                              b) 2
           What is the correct way to declare an array of 10 integers in C?
                                                                                                         0
                                                                                                              c) 3
                      a) int arr[10];
                 0
                                                                                                              d) 4
                                                                                                         0
                 0
                      b) int[10] arr;
                                                                                                              Correct answer: d) 4
                                                                                             11. What is the size of the array int arr[10] in bytes?
                 0
                      c) arr(10) int;
                                                                                                              a) 10 bytes
                      d) None of the above
                                                                                                         \circ
                                                                                                              b) 20 bytes
                      Correct answer: a) int arr[10];
                                                                                                         0
           How do you access the third element of an array named 'arr' in
                                                                                                              c) 40 bytes
                                                                                                         0
                                                                                                              d) 50 bytes
                 0
                      a) arr[3]
                                                                                                              Correct answer: b) 20 bytes
                 0
                      b) arr[2]
                                                                                             12. Which of the following can be used to change the size of an
                      c) arr{2}
                                                                                                   array dynamically?
                 0
                      d) arr[1]
                                                                                                        0
                                                                                                             a) realloc()
                      Correct answer: b) arr[2]
                                                                                                        0
                                                                                                              b) malloc()
           What will the following code print?
                                                                                                              c) sizeof()
                                                                                                              d) None of the above
                                                                                                              Correct answer: a) realloc()
           int arr[] = \{1, 2, 3, 4\};
                                                                                             13. How do you pass an array to a function in C?
           printf("%d", arr[2]);
                                                                                                         0
                                                                                                              a) By value
                                                                                                              b) By reference
                                                                                                         0
                 0
                      a) 1
                                                                                                         0
                                                                                                              c) By copying
                      b) 2
                 0
                                                                                                              d) By pointer
                                                                                                         0
                 0
                      c) 3
                                                                                                              Correct answer: b) By reference
                      d) 4
                 0
                                                                                             14. What does the following code do?
                      Correct answer: c) 3
           Which of the following is the correct way to initialize an array
                                                                                                   int arr[] = \{1, 2, 3\};
           in C?
                                                                                                   arr[1] = 5;
                 0
                      a) int arr[] = \{1, 2, 3\};
                      b) int arr(3) = \{1, 2, 3\};
                 0
                 0
                      c) int arr[3] = \{1, 2, 3\};
                                                                                                              a) It prints the array
                      d) All of the above
                                                                                                              b) It changes the value of the second element to 5
                      Correct answer: a) int arr[] = \{1, 2, 3\};
                                                                                                              c) It deletes the second element
           What is the output of the following code?
                                                                                                              d) Nothing
                                                                                                              Correct answer: b) It changes the value of the
                                                                                                              second element to 5
           int arr[] = \{10, 20, 30\};
                                                                                             15. What will be the output of this code?
           printf("%d", arr[1]);
                                                                                                   int arr[3] = \{1, 2, 3\};
                 0
                      a) 10
                                                                                                   printf("%d", arr[2]);
                 0
                      b) 20
                 \circ
                      c) 30
                                                                                                         0
                                                                                                              a) 1
                      Correct answer: b) 20
                                                                                                         0
                                                                                                              b) 2
           How do you declare an array of 5 floats in C?
                                                                                                         0
                                                                                                              c) 3
                      a) float arr[5];
                 0
                                                                                                              d) Error
                                                                                                         0
                 0
                      b) float[5] arr;
                                                                                                              Correct answer: c) 3
                      c) arr[5] float;
                 0
                      d) None of the above
                                                                                        6. String Handling Functions:
                      Correct answer: a) float arr[5];
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7.

Which of the following is used to find the length of a string in 12. Which function returns the length of a string in C? C? a) length() 0 a) length() b) strlength() 0 b) size() 0 c) strlen() 0 c) strlen() 0 d) sizeof() d) strlength() Correct answer: c) strlen() Correct answer: c) strlen() 13. What does the function strtok() do in C? What is the function used to concatenate two strings in C? a) Tokenizes a string 0 a) streat() b) Compares two strings 0 b) strcpy() 0 0 c) Concatenates two strings c) strconcat() 0 d) Copies one string to another Correct answer: a) Tokenizes a string d) append() Correct answer: a) strcat() 14. What will the following code print? Which function is used to copy a string from one variable to another in C? char str[] = "C Programming"; \circ a) strcpy() printf("%s", str); 0 b) strncpy() 0 c) copystr() a) C 0 0 d) strcopy() Correct answer: a) strcpy() b) Programming c) C Programming What does the function strcmp() do in C? d) Error a) Compares two strings 0 Correct answer: c) C Programming b) Copies one string to another 15. What is the function used to convert a string to uppercase in C? c) Finds the length of a string \circ a) strupr() 0 d) Concatenates two strings b) strtoupper() Correct answer: a) Compares two strings What is the return type of the strcpy() function in C? c) toupper() 0 d) upper() 0 a) int Correct answer: a) strupr() 0 b) char c) char * 0 d) void **Correct answer: c) char *** What will be the output of the following code? 7. User-Defined Functions: char str[] = "Hello"; How do you declare a function in C? printf("%c", str[1]); a) void function_name(); b) function name(); 0 0 a) H c) function_name(void); 0 b) e d) void function_name(void); c) 1 0 Correct answer: d) void function_name(void); What is the correct syntax for a function that returns an integer 0 d) o Correct answer: b) e and takes no arguments in C? What is the correct way to declare a string in C? a) int function() {} 0 a) char str = "Hello"; 0 b) function int() {} 0 b) char str[] = "Hello"; c) int function(void) { } c) string str = "Hello"; 0 d) void function(int) { } d) char str[5] = "Hello"; 0 Correct answer: a) int function() {} Correct answer: b) char str[] = "Hello"; What will be the output of the following code? Which function is used to convert a string to an integer in C? \circ a) atoi() int sum(int a, int b) { 0 b) itoa() return a + b; 0 c) atoi_str() d) str_to_int() printf("%d", sum(5, 10)); Correct answer: a) atoi() What does the function strrev() do in C? a) Reverses a string 0 a) 10 0 b) Returns the reverse of a string 0 b) 15 0 c) 50 c) Converts a string to uppercase 0 d) Error d) Concatenates a string Correct answer: b) 15 Correct answer: a) Reverses a string Which of the following is a correct function definition in C? 10. How do you find the first occurrence of a character in a string in C? a) void add() {} 0 0 b) add() {} a) strchr() 0 c) function void add() {} 0 b) strchrn() d) void add(int, int) {} 0 c) findchar() 0 Correct answer: d) void add(int, int) {} d) strstr() What is the purpose of the return statement in a function in C? Correct answer: a) strchr() 11. Which function returns the position of a substring in a string in a) To exit the function b) To pass a value back to the calling function 0 a) strstr() c) To stop the execution of the program b) substring() 0 d) None of the above c) strfind() Correct answer: b) To pass a value back to the 0 calling function d) strloc()

Correct answer: a) strstr()
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Which function is called automatically when the program starts
                                                                                                            c) By pointer
           in C?
                                                                                                            d) All of the above
                0
                      a) start()
                                                                                                            Correct answer: d) All of the above
                      b) main()
                0
                0
                      c) init()
                                                                                      6. String Handling Functions:
                      d) setup()
                0
                      Correct answer: b) main()
                                                                                                 Which of the following is used to find the length of a string in
          What is the default return type of a function if no return type is
                                                                                                 C?
           specified in C?
                                                                                                            a) length()
                      a) int
                                                                                                       0
                                                                                                            b) size()
                0
                      b) void
                                                                                                            c) strlen()
                                                                                                       0
                0
                      c) char
                                                                                                            d) strlength()
                0
                      d) float
                                                                                                            Correct answer: c) strlen()
                      Correct answer: a) int
                                                                                                 What is the function used to concatenate two strings in C?
          What will be the output of the following code?
                                                                                                            a) streat()
                                                                                                            b) strcpy()
                                                                                                       0
           int add(int a, int b) {
                                                                                                       0
                                                                                                            c) strconcat()
             return a + b;
                                                                                                            d) append()
                                                                                                            Correct answer: a) strcat()
           printf("%d", add(5, 3));
                                                                                                 Which function is used to copy a string from one variable to
                                                                                                 another in C?
                0
                      a) 5
                                                                                                       0
                                                                                                            a) strcpy()
                0
                      b) 3
                                                                                                       0
                                                                                                            b) strncpy()
                0
                      c) 8
                                                                                                       0
                                                                                                            c) copystr()
                      d) Error
                0
                                                                                                            d) strcopy()
                      Correct answer: c) 8
                                                                                                            Correct answer: a) strcpy()
           Which keyword is used to define a function in C?
                                                                                                 What does the function stremp() do in C?
                0
                      a) func
                                                                                                       0
                                                                                                            a) Compares two strings
                      b) define
                0
                                                                                                       0
                                                                                                            b) Copies one string to another
                0
                      c) void
                                                                                                       0
                                                                                                            c) Finds the length of a string
                0
                      d) return
                                                                                                            d) Concatenates two strings
                      Correct answer: c) void
                                                                                                            Correct answer: a) Compares two strings
          What happens if you do not provide a return statement in a non-
                                                                                                 What is the return type of the strcpy() function in C?
           void function in C?
                                                                                                            a) int
                0
                     a) It causes a syntax error
                                                                                                            b) char
                                                                                                       0
                0
                      b) It returns a garbage value
                                                                                                       0
                                                                                                            c) char *
                0
                      c) It returns 0 by default
                                                                                                       0
                                                                                                            d) void
                      d) It exits the program
                0
                                                                                                             **Correct answer: c) char ***
                      Correct answer: b) It returns a garbage value
                                                                                                 What will be the output of the following code?
     11. Can a function call itself in C?
                      a) Yes, it's called recursion
                                                                                                 char str[] = "Hello":
                0
                      b) No, it causes an error
                                                                                                 printf("%c", str[1]);
                0
                     c) Yes, but only if it's void
                      d) Yes, but only with a return type
                      Correct answer: a) Yes, it's called recursion
                                                                                                       0
                                                                                                            a) H
     12. Which of the following is true about functions in C?
                                                                                                       0
                                                                                                            b) e
                0
                     a) A function can call itself recursively
                                                                                                       \circ
                                                                                                            c) 1
                      b) A function cannot return a value
                                                                                                       0
                                                                                                            d) o
                                                                                                            Correct answer: b) e
                0
                      c) A function must have a parameter
                                                                                                 What is the correct way to declare a string in C?
                      d) None of the above
                                                                                                            a) char str = "Hello";
                      Correct answer: a) A function can call itself
                                                                                                       0
                      recursively
                                                                                                       0
                                                                                                            b) char str[] = "Hello";
     13. What will be the output of the following code?
                                                                                                            c) string str = "Hello";
                                                                                                       0
                                                                                                            d) char str[5] = "Hello";
                                                                                                            Correct answer: b) char str[] = "Hello";
           int multiply(int a, int b) {
                                                                                                 Which function is used to convert a string to an integer in C?
             return a * b;
                                                                                                            a) atoi()
                                                                                                       0
                                                                                                       0
                                                                                                            b) itoa()
           printf("%d", multiply(4, 5));
                                                                                                       0
                                                                                                            c) atoi_str()
                                                                                                            d) str_to_int()
                0
                      a) 9
                                                                                                            Correct answer: a) atoi()
                0
                     b) 20
                                                                                                 What does the function strrev() do in C?
                0
                      c) 45
                                                                                                       0
                                                                                                            a) Reverses a string
                      d) Error
                0
                                                                                                       0
                                                                                                            b) Returns the reverse of a string
                      Correct answer: b) 20
                                                                                                            c) Converts a string to uppercase
     14. What is the correct syntax for calling a function in C?
                                                                                                            d) Concatenates a string
                0
                      a) call function_name();
                                                                                                            Correct answer: a) Reverses a string
                0
                     b) function_name();
                                                                                            10. How do you find the first occurrence of a character in a string in
                0
                      c) call(function_name);
                                                                                                 C?
                      d) None of the above
                                                                                                       0
                                                                                                            a) strchr()
                      Correct answer: b) function_name();
                                                                                                       0
                                                                                                            b) strchrn()
     15. How do you pass an argument to a function in C?
                                                                                                            c) findchar()
                                                                                                       0
                      a) By value
                \circ
                                                                                                            d) strstr()
                      b) By reference
                                                                                                            Correct answer: a) strchr()
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- 11. Which function returns the position of a substring in a string in a) To exit the function 0 b) To pass a value back to the calling function 0 a) strstr() c) To stop the execution of the program b) substring() 0 d) None of the above 0 c) strfind() Correct answer: b) To pass a value back to the d) strloc() calling function Which function is called automatically when the program starts Correct answer: a) strstr() 12. Which function returns the length of a string in C? in C? 0 a) length() 0 a) start() b) strlength() 0 b) main() 0 c) strlen() c) init() 0 0 d) sizeof() d) setup() Correct answer: c) strlen() Correct answer: b) main() 13. What does the function strtok() do in C? What is the default return type of a function if no return type is specified in C? a) Tokenizes a string 0 b) Compares two strings \circ a) int 0 b) void 0 c) Concatenates two strings c) char d) Copies one string to another \circ Correct answer: a) Tokenizes a string d) float 14. What will the following code print? Correct answer: a) int What will be the output of the following code? char str[] = "C Programming"; printf("%s", str); int add(int a, int b) { return a + b; 0 a) C printf("%d", add(5, 3)); 0 b) Programming c) C Programming 0 a) 5 d) Error 0 b) 3 Correct answer: c) C Programming 15. What is the function used to convert a string to uppercase in C? 0 c) 8 0 d) Error a) strupr() Correct answer: c) 8 0 b) strtoupper() Which keyword is used to define a function in C? 0 c) toupper() 0 a) func d) upper() b) define 0 Correct answer: a) strupr() 0 c) void d) return Correct answer: c) void 10. What happens if you do not provide a return statement in a non-7. User-Defined Functions: void function in C? 0 a) It causes a syntax error b) It returns a garbage value How do you declare a function in C? 0 c) It returns 0 by default a) void function_name(); d) It exits the program 0 b) function_name(); Correct answer: b) It returns a garbage value 0 c) function_name(void); 11. Can a function call itself in C? d) void function_name(void); 0 a) Yes, it's called recursion Correct answer: d) void function_name(void); b) No. it causes an error What is the correct syntax for a function that returns an integer c) Yes, but only if it's void 0 and takes no arguments in C? d) Yes, but only with a return type a) int function() {} 0 Correct answer: a) Yes, it's called recursion 0 b) function int() {} 12. Which of the following is true about functions in C? c) int function(void) {} 0 a) A function can call itself recursively d) void function(int) {} b) A function cannot return a value Correct answer: a) int function() {} c) A function must have a parameter What will be the output of the following code? d) None of the above Correct answer: a) A function can call itself int sum(int a, int b) { recursively return a + b; 13. What will be the output of the following code? printf("%d", sum(5, 10)); int multiply(int a, int b) { return a * b: 0 a) 10 0 b) 15 printf("%d", multiply(4, 5)); c) 50 0 d) Error a) 9 0 Correct answer: b) 15 0 b) 20 Which of the following is a correct function definition in C? 0 c) 45 a) void add() {} d) Error 0 0 b) add() {} Correct answer: b) 20 0 c) function void add() {} 14. What is the correct syntax for calling a function in C? d) void add(int, int) {} a) call function_name(); Correct answer: d) void add(int, int) {} b) function_name(); What is the purpose of the return statement in a function in C?
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- o c) call(function_name);
- O d) None of the above

Correct answer: b) function_name();

- 15. How do you pass an argument to a function in C?
 - a) By value
 - O b) By reference
 - o c) By pointer
 - d) All of the above
 - Correct answer: d) All of the above

Call by Value and Call by Reference:

- What is the main difference between call by value and call by reference in C?
 - a) In call by value, actual parameters are passed; in call by reference, only addresses are passed.
 - b) In call by value, addresses are passed; in call by reference, actual parameters are passed.
 - c) In call by value, copies of the actual parameters are passed; in call by reference, copies of the formal parameters are passed.
 - d) No difference between the two.

Correct answer: a) In call by value, actual parameters are passed; in call by reference, only addresses are passed.

- 2. Which of the following allows the called function to modify the actual argument in C?
 - o a) Call by value
 - o b) Call by reference
 - o c) Call by pointer
 - O d) None of the above

Correct answer: b) Call by reference

- 3. What happens when arguments are passed by value in C?
 - a) The function can modify the values of the actual parameters.
 - b) The function receives a copy of the values and cannot modify the original data.
 - o c) The values are passed by reference.
 - O d) None of the above

Correct answer: b) The function receives a copy of the values and cannot modify the original data.

- 4. Which of the following is an advantage of call by reference over call by value?
 - a) Call by reference is faster because no memory is used for copying the arguments.
 - o b) Call by reference is easier to implement.
 - O c) Call by reference is always safer than call by value.
 - O d) None of the above

Correct answer: a) Call by reference is faster because no memory is used for copying the arguments.

- 5. Which of the following is used to pass arguments by reference in C?
 - o a) Using the ampersand (&) symbol
 - o b) Using the asterisk (*) symbol
 - c) By passing the variable directly
 - d) By using pointers

Correct answer: d) By using pointers

6. What will the following code output?

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```
d) Undefined behavior
```

Correct answer: a) 5

7. What will the following code output?

```
void change(int *a) {
    *a = 10;
}
int main() {
    int num = 5;
    change(&num);
    printf("%d", num);
    return 0;
}
```

- o a) 5
- o b) 10
- o c) Error
- O d) Undefined behavior

Correct answer: b) 10

- 8. Which function call method is typically used in recursion in C?
 - o a) Call by value
 - o b) Call by reference
 - o c) Call by pointer
 - d) None of the above

Correct answer: a) Call by value

- 9. In which of the following methods can we pass large data without affecting performance?
 - o a) Call by value
 - o b) Call by reference
 - O c) Both a and b
 - d) None of the above

Correct answer: b) Call by reference

- 10. Which of the following is true about passing arrays to functions in C?
 - o a) Arrays are always passed by value.
 - O b) Arrays are passed by reference.
 - O c) Arrays cannot be passed to functions in C.
 - d) None of the above

Correct answer: b) Arrays are passed by reference.

11. What does the following code snippet do in C?

```
void increment(int *x) {
   (*x)++;
}
```

- o a) Increments the value of x
- b) Increments the address of x
- o c) Increments the memory location of x
- d) Increments the pointer x itself

Correct answer: a) Increments the value of x

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

- 0 0) 10
- o c) Error
- O d) Undefined behavior

Correct answer: a) 5

- 13. Which of the following is a disadvantage of call by reference?
 - o a) It allows direct modification of actual arguments.
 - b) It can cause unintentional modification of the arguments.
 - o c) It is slower than call by value.

- d) None of the above
 - Correct answer: b) It can cause unintentional modification of the arguments.
- 14. Which of the following best describes call by reference?
 - a) Passing a copy of the actual value.
 - O b) Passing the memory address of the argument.
 - c) Passing the value to the pointer.
 - O d) Passing a reference to a pointer.

Correct answer: b) Passing the memory address of the argument.

- 15. In C, if a function modifies the argument, but the changes are not reflected outside the function, which call method is used?
 - a) Call by value
 - o b) Call by reference
 - o c) Call by pointer
 - d) None of the above
 - Correct answer: a) Call by value

9. Storage Classes:

- Which storage class defines variables that retain their values between function calls in C?
 - a) auto
 - o b) extern
 - o c) static
 - o d) register

Correct answer: c) static

- 2. What is the default storage class of a local variable in C?
 - o a) static
 - O b) auto
 - o c) register
 - d) extern

Correct answer: b) auto

- 3. Which of the following storage classes makes a variable accessible across multiple files in C?
 - o a) static
 - O b) auto
 - o c) extern
 - d) register

Correct answer: c) extern

- 4. What will happen if a variable is declared as register in C?
 - a) It will store the value in a register of the CPU, if available.
 - \circ b) It will be allocated in the heap.
 - o c) It will be stored in the stack.
 - d) None of the above

Correct answer: a) It will store the value in a register of the CPU, if available.

- 5. In which of the following scenarios is a static variable useful in C?
 - a) When a variable needs to be initialized only once and retains its value between function calls.
 - b) When a variable is shared between different functions.
 - o c) When a variable should not be initialized.
 - d) When a variable needs to be stored in the heap.
 Correct answer: a) When a variable needs to be initialized only once and retains its value between function calls.
- 6. What is the lifetime of a variable with static storage class in C?
 - o a) It exists until the program terminates.
 - o b) It exists for the duration of the function call.
 - o c) It exists only for the scope of the function.
 - d) It exists for the duration of the program execution.
 Correct answer: a) It exists until the program terminates.
- 7. What is the storage class of the following variable?

static int a;

o a) auto

- b) static
- o c) extern
- d) register

Correct answer: b) static

- 8. What is the main purpose of the extern keyword in C?
 - o a) To define a variable with global scope
 - b) To make a variable visible across different files
 - O c) To restrict a variable's scope within a function
 - d) To allocate memory dynamically

Correct answer: b) To make a variable visible across different files

- 9. Can a variable with extern storage class be initialized in C?
 - o a) Yes
 - o b) No
 - o c) It depends on the compiler
 - d) Only within the main function

Correct answer: b) No

- 10. Which storage class is used to give a variable a scope that is limited to the current block in C?
 - o a) auto
 - o b) static
 - o c) register
 - O d) extern
 - Correct answer: a) auto
- 11. What will be the value of a static variable if it is not initialized explicitly in C?
 - o a) Random value
 - o b) 0
 - o c) Undefined
 - o d) Compiler dependent

Correct answer: b) 0

- 12. What is the primary purpose of the register storage class in C?
 - a) To store the variable in the register
 - b) To make the variable available globally
 - c) To make the variable persist between function calls
 - d) To store the variable in the heap

Correct answer: a) To store the variable in the register

- 13. Can register variables be used with the & operator in C?
 - o a) Yes
 - O b) No
 - O c) Only in certain cases
 - \circ d) Depends on the compiler

Correct answer: b) No

- 14. What is the default storage class for global variables in C?
 - o a) auto
 - o b) static
 - o c) extern
 - O d) register

Correct answer: c) extern

- 15. What happens when an extern variable is declared in a C file?
 - a) It is allocated memory in the file.
 - O b) It refers to a variable that is defined in another file.
 - o c) It cannot be used in the file.
 - d) It is treated as a constant.
 - Correct answer: b) It refers to a variable that is defined in another file.

Recursion:

- 1. What is recursion in C?
 - o a) A function that calls itself
 - o b) A function that calls another function
 - \circ c) A function that returns a value
 - d) A function that is always iterative

Correct answer: a) A function that calls itself

- 2. In which of the following scenarios can recursion be useful in C?
 - a) To solve problems that can be divided into smaller sub-problems
 - o b) To reduce memory usage
 - \circ c) To make the code more complex

- d) None of the above
 - Correct answer: a) To solve problems that can be divided into smaller sub-problems
- What is the base case in a recursive function?
 - a) A condition that causes the recursion to terminate
 - b) A condition that causes the function to call itself
 - c) A condition that causes the program to exit
 - d) A condition that causes an infinite loop
 - Correct answer: a) A condition that causes the recursion to terminate
- What will happen if a recursive function does not have a proper base case in C?
 - a) The function will never terminate and cause a stack overflow
 - b) The function will terminate after some iterations 0
 - 0 c) The program will output an error message
 - d) The program will skip the function

Correct answer: a) The function will never terminate and cause a stack overflow

Consider the following recursive function:

```
int factorial(int n) {
  if (n == 0) {
     return 1;
  return n * factorial(n-1);
```

What does this function compute?

- a) The sum of numbers from 1 to n
- 0 b) The factorial of a number n
- c) The Fibonacci number at position n 0
- d) None of the above

Correct answer: b) The factorial of a number n

- What is the time complexity of the recursive factorial function?
 - a) O(1)
 - b) O(log n) 0
 - 0 c) O(n)
 - d) O(n^2)

Correct answer: c) O(n)

- Which of the following is an example of a problem that can be solved using recursion?
 - a) Calculating the greatest common divisor (GCD) 0
 - 0 b) Printing Fibonacci numbers
 - 0 c) Sorting an array
 - d) All of the above

Correct answer: d) All of the above

- Which of the following is true for recursive functions in C?
 - a) They always perform better than iterative solutions.
 - b) They can lead to a stack overflow if not used 0 carefully.
 - 0 c) They require fewer lines of code than iterative
 - d) They do not need a base case to work.

Correct answer: b) They can lead to a stack overflow if not used carefully.

What happens in the following recursive function call?

```
void func(int n) {
  if (n == 0) return;
  printf("%d ", n);
  func(n-1);
```

- a) It prints numbers from n down to 0
- b) It prints numbers from 0 to n
- c) It causes an infinite loop 0
- d) It prints nothing

Correct answer: a) It prints numbers from n down to 0

10. What is the output of the following recursive function?

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```
void func(int n) {
        if (n > 0) {
          func(n-1);
          printf("%d", n);
     int main() {
        func(3);
        return 0;
           0
                a) 3 2 1
                b) 123
           0
                c) 3 2 1 0
                d) 0 1 2 3
                Correct answer: b) 1 2 3
11. What is the output of the following code?
     int fibonacci(int n) {
        if (n \le 1) return n:
        return fibonacci(n - 1) + fibonacci(n - 2);
     int main() {
        printf("%d", fibonacci(5));
        return 0;
           0
                a) 5
                b) 8
           0
                c) 3
                d) 13
           0
                Correct answer: a) 5
12. What is the advantage of using recursion in a problem?
                a) Recursion simplifies the code and logic for
                complex problems
                b) Recursion is faster than iteration
           0
                c) Recursion always uses less memory
                d) Recursion is always more efficient
                Correct answer: a) Recursion simplifies the code
                and logic for complex problems
     recursion in C?
```

- 13. Which of the following problems is commonly solved using
 - a) Tower of Hanoi 0
 - b) Sorting an array
 - c) Searching in a sorted list 0
 - d) All of the above

Correct answer: a) Tower of Hanoi

14. What will happen if the function below is called with factorial(5) in C?

```
int factorial(int n) {
  if (n == 1) return 1;
  return n * factorial(n-1);
```

- a) It will cause a stack overflow \circ
- 0 b) It will return 120
- c) It will return 0 0
- d) It will return undefined behavior

Correct answer: b) It will return 120

11. Structure and Nested Structure:

- What is a structure in C?
 - a) A type of array
 - b) A collection of variables of different types
 - c) A collection of variables of the same type
 - d) A function

Correct answer: b) A collection of variables of different types

```
How do you define a structure in C?
                                                                                                 d) Error
                                                                                                 Correct answer: a) 3 + 4i
           a) struct name { type1 var1; type2 var2; };
                                                                                10. Which of the following is true for a structure in C?
           b) struct { type1 var1; type2 var2; } name;
                                                                                                 a) Structure members can only be integers
           c) struct name { type1 var1; };
     0
      0
           d) All of the above
                                                                                                 b) Structure members can have different data types
           Correct answer: d) All of the above
                                                                                                 c) Structure variables must be integers
Can you have a structure inside another structure in C?
                                                                                                 d) Structure members are always fixed-size
                                                                                                 Correct answer: b) Structure members can have
           a) Yes
                                                                                                 different data types
     0
           b) No
     0
           c) Only in specific compilers
      0
           d) Only with pointers
                                                                           Union:
           Correct answer: a) Yes
What is the correct way to access members of a structure in C?
                                                                                      What is the size of a union in C?
                                                                                1.
           a) structure.member
                                                                                                 a) The size of the largest member of the union
     0
           b) structure->member
                                                                                                 b) The sum of the sizes of all the members
     0
           c) Both of the above
                                                                                                 c) The number of members in the union
      0
           d) None of the above
                                                                                                 d) Undefined
           Correct answer: c) Both of the above
                                                                                                 Correct answer: a) The size of the largest member
Which of the following is an example of a nested structure in C?
                                                                                                 of the union
           a) A structure that contains an array
                                                                                      Which of the following is a valid union definition in C?
     0
           b) A structure that contains another structure as a
                                                                                           \circ
                                                                                                 a) union name { int a; char b; };
           member
                                                                                           0
                                                                                                 b) union { int a; float b; } name;
     0
           c) A structure with a pointer to another structure
                                                                                           0
                                                                                                 c) union name { int a; char b; } name;
           d) None of the above
                                                                                           0
                                                                                                 d) All of the above
           Correct answer: b) A structure that contains
                                                                                                 Correct answer: d) All of the above
           another structure as a member
                                                                                      In a union, what happens if we assign a value to one member?
What is the output of the following C code?
                                                                                                 a) It overwrites the values of all other members
                                                                                                 b) It does not affect other members
struct person {
                                                                                           0
                                                                                                 c) It stores the value for the assigned member only
  char name[50];
                                                                                                 d) It raises a compilation error
  int age;
                                                                                                 Correct answer: a) It overwrites the values of all
                                                                                                 other members
struct student {
                                                                                      What will be the output of the following code?
  struct person p;
  int grade;
                                                                                      union u {
struct student s1;
                                                                                        int a:
s1.p.age = 20;
                                                                                        char b;
printf("%d", s1.p.age);
                                                                                      };
                                                                                      union u var;
                                                                                      var.a = 10;
     0
           a) Error
                                                                                      printf("%d", var.b);
      0
           b) 20
           c) 50
     0
           d) Undefined
                                                                                           \circ
                                                                                                 a) 10
           Correct answer: b) 20
                                                                                           0
                                                                                                 b) 'a'
What does the sizeof() operator return when used with a
                                                                                           0
                                                                                                 c) Garbage value
structure in C?
                                                                                                 d) Error
                                                                                           0
     \circ
           a) The number of members in the structure
                                                                                                 Correct answer: c) Garbage value
           b) The size of the structure in bytes
                                                                                      What is the main difference between a structure and a union in
     0
                                                                                      C?
     0
           c) The size of the largest member in the structure
                                                                                                 a) A structure allocates memory for all its members,
           d) None of the above
                                                                                                 while a union shares memory for its members
           Correct answer: b) The size of the structure in
                                                                                           0
                                                                                                 b) A structure allows only one member to be
Which of the following is the correct syntax to define a structure
                                                                                                 accessed at a time
pointer in C?
                                                                                                 c) A union allows multiple members to be accessed
                                                                                           0
           a) struct name *ptr;
           b) struct *ptr;
                                                                                                 d) A structure is faster to access than a union
     0
           c) name *ptr;
                                                                                                 Correct answer: a) A structure allocates memory
                                                                                                 for all its members, while a union shares memory
           d) struct *ptr[];
                                                                                                 for its members
           *Correct answer: a) struct name ptr;
                                                                                      How do you access a union member in C?
What is the output of the following code?
                                                                                                 a) Using the dot operator (union.member)
                                                                                                 b) Using the arrow operator (union->member)
struct complex {
                                                                                                 c) Using the sizeof() operator
  int real;
                                                                                                 d) Using both dot and arrow operators
  int imag;
                                                                                                 Correct answer: a) Using the dot operator
                                                                                                 (union.member)
struct complex num;
                                                                                      What is the output of the following code?
num.real = 3;
num.imag = 4;
printf("%d + %di", num.real, num.imag);
                                                                                      union test {
                                                                                        int i;
                                                                                        float f:
           a) 3 + 4i
          b) 3 + 4
      0
                                                                                      union test t;
          c) 7
```

t.i = 5;

```
t.f = 10.5:
                                                                                                            d) ptr.value
           printf("%d %f", t.i, t.f);
                                                                                                             *Correct answer: b) ptr
                                                                                                 What is the output of the following code?
                      a) 5 10.5
                0
                      b) 5 0.0
                                                                                                 int a = 5;
                0
                                                                                                 int *p = &a;
                      c) 0 10.5
                0
                                                                                                 *p = 10;
                      d) Undefined
                                                                                                 printf("%d", a);
                      Correct answer: b) 5 0.0
          Which of the following statements is true regarding unions in C?
                      a) All members of a union share the same memory
                                                                                                       0
                                                                                                            a) 5
                      location
                                                                                                       0
                                                                                                            b) 10
                0
                      b) Unions are always faster than structures
                                                                                                            c) Undefined
                                                                                                       0
                      c) You can assign values to all members of a union
                0
                                                                                                            d) Error
                      simultaneously
                                                                                                            Correct answer: b) 10
                      d) Unions always use less memory than structures
                                                                                                 Which of the following correctly defines a pointer to a pointer in
                      Correct answer: a) All members of a union share
                                                                                                 C?
                      the same memory location
                                                                                                            a) int **ptr;
                                                                                                       0
           What is the maximum number of members that can be assigned
                                                                                                       0
                                                                                                            b) int *ptr*;
           values simultaneously in a union in C?
                                                                                                            c) int ptr**;
                                                                                                       0
                0
                      a) One
                                                                                                            d) **int ptr;
                0
                      b) Two
                                                                                                             **Correct answer: a) int ptr;
                0
                      c) All members
                                                                                                 What is the result of dereferencing a NULL pointer in C?
                      d) None of the above
                                                                                                            a) It will print NULL
                      Correct answer: a) One
                                                                                                            b) It will result in undefined behavior
     10. How do you define a union that contains an integer and a float
                                                                                                            c) It will cause a segmentation fault
                                                                                                       0
           in C?
                                                                                                            d) It will cause an infinite loop
                      a) union { int x; float y; };
                \circ
                                                                                                            Correct answer: b) It will result in undefined
                      b) union data { int x; float y; };
                0
                                                                                                            behavior
                      c) union int { int x; float y; };
                0
                                                                                                 What is the correct way to initialize a pointer to NULL in C?
                      d) struct { int x; float y; };
                                                                                                            a) int *ptr = 0;
                                                                                                       0
                      Correct answer: b) union data { int x; float y; };
                                                                                                            b) int *ptr = NULL;
                                                                                                            c) Both a and b
                                                                                                       \circ
                                                                                                            d) None of the above
                                                                                                            Correct answer: c) Both a and b
                                                                                           10. Which of the following can be stored in a pointer?
13. Pointers:
                                                                                                            a) Memory addresses
                                                                                                       0
                                                                                                            b) Data values
           What does a pointer in C store?
                                                                                                       0
                                                                                                            c) Arrays
                      a) The value of a variable
                                                                                                            d) Functions
                      b) The address of a variable
                \circ
                                                                                                            Correct answer: a) Memory addresses
                      c) The data type of a variable
                      d) None of the above
                      Correct answer: b) The address of a variable
          How do you declare a pointer in C?
                0
                      a) int ptr;
                                                                                      14. File Handling:
                      b) int *ptr;
                0
                0
                      c) int ptr*;
                                                                                                 Which of the following functions is used to open a file in C?
                      d) *int ptr;
                0
                                                                                                            a) fopen()
                                                                                                       0
                      *Correct answer: b) int ptr;
                                                                                                       0
                                                                                                            b) fileopen()
          What is the output of the following C code?
                                                                                                       0
                                                                                                            c) open()
                                                                                                            d) file read()
           int a = 10;
                                                                                                            Correct answer: a) fopen()
           int *ptr = &a;
                                                                                                 Which of the following is the correct syntax for opening a file in
           printf("%d", *ptr);
                                                                                                 write mode in C?
                                                                                                            a) fopen("filename", "w");
                                                                                                       0
                                                                                                            b) fopen("filename", "r");
                0
                      a) 10
                                                                                                            c) fopen("filename", "a");
                0
                      b) &a
                                                                                                            d) fopen("filename", "rw");
                0
                      c) ptr
                                                                                                            Correct answer: a) fopen("filename", "w");
                      d) Undefined
                                                                                                 How do you close a file in C?
                      Correct answer: a) 10
                                                                                                       0
                                                                                                           a) fileclose()
           What is the purpose of the & operator in C?
                                                                                                            b) close()
                                                                                                       0
                      a) To dereference a pointer
                0
                                                                                                            c) fclose()
                      b) To find the address of a variable
                                                                                                            d) file_end()
                      c) To declare a pointer
                0
                                                                                                            Correct answer: c) fclose()
                      d) To compare values
                                                                                                 What will happen if you try to open a non-existent file in read
                      Correct answer: b) To find the address of a
                                                                                                 mode using fopen() in C?
                      variable
                                                                                                            a) The program will crash
          Which of the following is the correct syntax to get the value
                                                                                                            b) The program will display an error message
                                                                                                       \circ
           pointed to by a pointer?
                                                                                                            c) It will return NULL
                0
                      a) ptr->value
```

d) It will create the file automatically

writing?

Correct answer: c) It will return NULL

Which of the following file modes in C allows both reading and

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b) *ptr

c) &ptr

0

- 0 a) r
- 0 b) w
- 0 c) a
- d) r+ 0

Correct answer: d) r+

- What does the fgetc() function do in C?
 - a) Reads an entire line of text
 - b) Reads a single character from a file 0
 - c) Reads the entire contents of a file
 - d) Writes a single character to a file

Correct answer: b) Reads a single character from a file

- What is the return type of the fopen() function in C?

 - b) FILE* 0
 - 0 c) char*
 - d) void 0

Correct answer: b) FILE*

- Which function is used to write data to a file in C?
 - 0 a) fwrite()
 - 0 b) filewrite()
 - c) putchar()
 - d) fprintf()
 - 0 Correct answer: a) fwrite()
- What happens when you open a file in append mode ("a") in C?
 - a) The file is overwritten
 - o b) The file is read-only
 - c) The new data is written at the end of the file
 - d) The file is created if it doesn't exist

Correct answer: c) The new data is written at the end of the file

- 10. What is the correct function to check if the end of a file is reached in C?
 - o a) feof()
 - b) endfile() 0
 - 0 c) fileend()
 - d) EOF()

Correct answer: a) feof()