1.	Hov	How do you declare a string in c that can store up to 50 characters?			
	A)	string str[50];	B)	char str[50];	
	C)	char[] str="50";	D)	string str=50;	
2.	Hov	v do you access the last element of an array arr w	ith n	elements in C	
	A)	arr[n];	B)	arr[n-1];	
	C)	arr[n+1];	D)	arr[last];	
3.	Assu	uming int is of 4bytes, what is the size of int arr[15	5];?		
	A)	15	B)	19	
	C)	11	D)	<mark>60</mark>	
4.		access the third element of an array named 'arr', y			
	A)	arr[2]	B)	arr[3]	
_	C)	arr(2)	D)	arr(3)	
5.		ich of the following is a valid declaration for a 2D a		?	
	A)	int a[][] = {{1,2}, {3,4}};	B)	int a[2,2] = {{1,2}, {3,4}};	
	C)	int a[2][2] = {{1,2}, {3,4}};	D)	array a[2][2] = {{1,2}, {3,4}};	
6.		ich of the following correctly initializes an array of			
	A)	int arr[5] = {0};	B)	int arr[5];	
_	C)	int arr[5] = {};	D)	int arr[] = {0,0,0,0,0};	
7.		at is the index of the first element in an array?			
	A)	<mark>0</mark>   e:	B)	1	
8.	C)	First	D)	Start	
ο.		n array declaration int arr $[5] = \{1, 2, 3\}$ ;, what will			
	A)	3	B)	0	
9.		ich statement about arrays in C is false?	<u> </u>	<mark>   </mark>	
	A)	Arrays can store multiple values of different	B)	The size of an array must be specified at the	
	Í	data types.	,	time of declaration.	
	C)	The elements of an array are stored in	D)	The array index starts from 0.	
		contiguous memory locations.		•	
10.	Hov	v would you declare a two-dimensional integer ar	ray o	f 3 rows and 4 columns?	
	A)	int arr[3, 4];	B)	int arr[3][4];	
	C)	int[3][4] arr;	D)	int arr[ ][ ] = {3, 4};	
11.	Wha	at will be the output of the following C code?	•		
	#include <stdio.h> int</stdio.h>				
		main()			
	ı	mani()			
	{	[			
	,				
		int ary[2][3];			
		ary[][] = {{1, 2, 3}, {4, 5, 6}};			
		printf("0/d\n" arv[1][0]).			
		printf("%d\n", ary[1][0]);			

```
A) Compile time error
                                                           B)
                                                           D) 2
12.
      What will be output of the following C code where we copy an array 'a' into array 'b' and then the array 'b'
      into 'a'?
      #include<stdio.h>
      #include<string.h> main()
      {
       char a[] = "hell";
       char b[] = "hello";
       strcpy(b, a);
       strcpy(a, b); printf("%s, %s", a, b);
      }
                                                          B) hell, hell
         hello, hello
     C)
         hell, hello
                                                          D)
                                                               Runtime Error
13.
     What is the maximum number of dimensions an array in C may have?
                                                          B)
          Two
                                                               eight
                                                                Theoretically no limit. The only practical limits
     C)
          sixteen
                                                          D)
                                                                are memory size and compilers
14.
     Array is an example of
                                  type memory allocation.
     A) Compile time
                                                          B)
                                                               Run time
                                                          D)
                                                               None of the above
         Both A and B
    The parameter passing mechanism for an array is
15.
                                                          B)
                                                               call by reference
     A)
          call by value
     C)
                                                          D)
                                                               None of the above
          call by value-result
```

1.	In C	In C, what is a function primarily used for?		
	A)	Decision making	B)	Variable declaration
	C)	Code organization and reusability	D)	Printing output
2.	What is the purpose of the return statement in a C function?			
	A) To end the function and return control to B) To repeat the function.			To repeat the function.
		the calling function, optionally returning		
		a value.		

	C)	To print a value to the console.	D)	To declare a new function.
3.	If a	function in C does not return a value, what should	l be i	ts return type?
	A)	<mark>void</mark>	B)	int
	C)	float	D)	null
4.	and	, what happens if two variables with the same nar one local)?		
	A)	The program will result in a compilation error.	B)	The global variable will be accessible throughout the program.
	C)	The local variable will shadow the global variable within its scope.	D)	Both variables will be accessible, leading to undefined behavior.
5.	Whi	ich of the following statements is true regarding fu	ıncti	on prototypes in C?
	A)	A function prototype is required for every function in a C program.	B)	A function prototype provides a forward declaration of a function to the compiler.
	C)	A function prototype can be omitted if the function is defined before its first use.	D)	A function prototype must include the body of the function.
6.	#inc	at will be the output of the following C code? clude <stdio.h> If func(int x) {     x = 10; } int main() {     int x = 5;     func(x);     printf("%d", x);     return 0; }  Compilation error</stdio.h>	B)	5 Undefined behavior
_				
7.		uments passed to a function in C language are call		
	A)	Formal arguments	B)	Actual arguments
0	C)	Definite arguments	D)	Ideal arguments
8.	A fu A)	nction which calls itself is called afunction.	B)	Auto Function
	C)	Self Function	D)	Auto Function Static Function
9.	•	Recursive Function at is the difference between formal and actual par	•	
J.	vvilo	at is the uniterence between formal and actual par	aiiie	iters in C!

	A)	Formal parameters are used in function	B)	There is no difference
	' ',	definition, actual parameters in function call	",	There is no difference
	C)		D/	Formal navamentors are variables actual
	C)	Actual parameters are used in function	D)	Formal parameters are variables, actual
		definition, formal parameters in function call		parameters are values
10.	Wh	at are global variables in C?	1	
	A)	Variables declared within a function	B)	Variables that can be accessed by any function
				in the program
	C)	Constants	D)	Variables that store functions
11.	Wh	ich of the following is a correct way to define a fu	nctio	n in C?
	A)	<pre>int sum(int a, int b) { return a + b; }</pre>	B)	function sum(int a, int b) { return a + b; }
	C)	sum(int a, int b): int { return a + b; }	D)	int sum(a, b) { return a + b; }
12.	2. Which keyword is used to indicate that a function does not return a value in C?			ot return a value in C?
	A)	null	В)	void
	C)	none	D)	empty
13.	Wh	at is a function in C?		
	A)	A named block of code designed to perform a	B)	A variable used to store data
		specific task		
	C)	A header file	D)	A type of operator
14.	Wh	at is the scope of a local variable in C?	•	
	A)	Throughout the program	B)	Within the block where it is declared
	C)	Within all functions of the same file	D)	Global
15.	Hov	v are arguments passed to functions in C?		
	A)	By reference	B)	By value
	C)	Either by reference or by value	D)	By name
l-		·	•	-

1.	In (	In Call by Value, which of the following statements is true?			
	A)	The function modifies the actual parameter.	B)	A copy of the actual parameter is passed.	
	C)	The function receives the address of the	D)	Call by Value is more efficient for large data	
		parameter.		structures.	
2.	In Call by Reference, the function works with:				
	A)	A copy of the parameter	B)	The actual value of the parameter	
	C)	The address of the actual parameter	D)	A duplicate variable	
3.	Which of the following is a disadvantage of Call by Value?				
	A)	Changes made to the parameter affect the	B)	It is less efficient for large data structures.	
		original value.			
	C)	It is prone to side effects.	D)	It is not used for primitive data types.	
4.	Wha	at is one of the main advantages of Call by Refere	nce?		
	A)	It avoids unintended side effects.	B)	It works only with primitive data types.	
	C)	It allows modification of the original variable.	D)	It requires more memory.	
5.	Whi	ich storage class is the default for local variables in	ı C?		
	A)	Auto	B)	Register	

	C)	Static	D)	Extern
6.	Whi	ch storage class suggests storing the variable in th	ne CP	U register for faster access?
	A)	Auto	B)	Register Register
	C)	Static	D)	Extern
7.	A st	atic variable declared inside a function in C:		
	A)	Retains its value between function calls.	B)	Is destroyed at the end of the function.
	C)	Can only be accessed from other files.	D)	Is always stored in the CPU register.
8.	Whi	ch storage class would you use to share a variable	e acro	oss multiple files in C?
	A)	Auto	B)	Register
	C)	Static	D)	<mark>Extern</mark>
9.	Whi	ch of the following is a property of an "extern" va	riabl	e?
	A)	Visible only in the file where it is defined	В)	Visible throughout the program, even across
				<mark>files</mark>
	C)	Retains its value between function calls	D)	Must be stored in a register
10.		lifetime of a variable declared with the `auto` sto		
	A)	The entire program.	B)	Only within the block or function where it is defined.
	C)	Across multiple files.	D)	None of the above.
11.	Whi	ch of the following is required for a recursive fund	ction	?
	A)	A condition that forces termination	B)	A register variable
	C)	A variable declared with 'extern'	D)	A global variable
12.	A fu	nction that calls itself is known as a:		
	A)	Static function	B)	Recursive function
	C)	Inline function	D)	Register function
13.		ch of the following is an example of a base of		for a recursive factorial function?
	A)	n = n - 1	B)	return n * factorial(n - 1)
	C)	if (n == 0) return 1;	D)	n++;
14.	Rec	ursive functions are most useful when:		
	A)	The problem can be divided into smaller sub-	B)	The problem cannot be broken down.
		problems of the same type.		
	C)	The problem involves global variables.	D)	The function needs to run infinitely.
15.		ch of the following correctly describes the factori		
	A)	3! = 3 * (3 - 1)!	В)	3! = 3 * 2 * 1
	C)	3! = (3 - 1) * (3 - 2)	D)	3! = 3 + 2 + 1

1.	Wh	Which of the following is the correct way to declare and initialize a string in C?				
	A)	char str = "Hello";`	B)	char str[] = "Hello";		
	C)	char str[6] = "Hello";	D)	string str = "Hello";`		
2.	Which function is used to concatenate two strings in C?					
	A)	strcpy()	B)	strcat()		
		130				

	C)	strcmp()	D)	strrev()		
3.	What does the `strcmp()` function return when two strings are equal?					
	A)	0	B)	1		
	C)	-1	D)	The length of the string		
4.	Wh	lich function is used to copy a string from one	locat	tion to another?		
	A)	strcpy()	B)	strcat()		
	C)	strlen()	D)	strrev()		
5.	Wh	at is the purpose of strncat() function?	II.	V		
	A)	To concatenate a fixed number of	B)	To compare a fixed number of characters		
		characters from one string to another		from two strings		
	C)	To copy a fixed number of characters from one string to another	D)	To reverse a string		
6.	Wh	at is the difference between strcat() and strnc	at()?			
	A)	strcat() copies characters, while strncat()	B)	strcat() appends a string, while strncat()		
		concatenates characters		appends a fixed number of characters		
	C)	strcat() compares strings, while strncat()	D)	There is no difference; they are identical		
		copies strings	<u> </u>			
7.		ich function changes all the characters of a st				
	A)	strupr()	B)	strrev()		
•	C)	strlwr()	D)	strcpy()		
8.		at does putchar() function do?	D)	D: 4		
	A)	Reads a character from input	B)	Prints a string to the output		
0	C)	Prints a single character to the output	D)	Reads a string from input		
9.	A)	at does strrev() do?  Reverses a string	B)	Converts a string to uppercase		
	C)	Concatenates two strings	D)	Compares two strings		
10.	,		<u></u> D)	Compares two strings		
	What will be the output of the following code? #include <stdio.h></stdio.h>					
		#include <string.h></string.h>				
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	į	int main() {				
	char str1[20] = "Hello";					
		char str2[] = "World";				
		strcat(str1, str2);				
		printf("%s\n", str1); return 0;				
	۸١	Hollo World	D/			
	A)	HelloWorld	B)	Hello World		
44	C)	WorldHello	(atr)	Hello		
11.		en the following code snippet, what will strlend #include <stdio.h></stdio.h>	(str)	return?		
		#include <string.h></string.h>				
	1	minorade Stillig.11/				

```
int main() {
           char str[] = "OpenAl";
           printf("%d", strlen(str));
           return 0;
        }
     A) 6
                                                         B) | 7
                                                              4
     C)
         5
                                                         D)
12.
     What will be the result of the following code?
        #include <stdio.h>
        #include <string.h>
        int main() {
          char str1[20] = "apple";
          char str2[] = "apple";
           int result = strcmp(str1, str2);
           printf("%d\n", result);
           return 0;
                                                         B) 1
                                                         D) 5
     Which of the following lines of code will correctly copy a string?
13.
     A) strcpy("Hello", str1);
                                                         B) strcpy(str1, "Hello");
                                                         D) strncpy(str1, "Hello", 5);
     C)
         copy(str1, "Hello");
     What will the following code print?
14.
     #include <stdio.h>
     #include <ctype.h>
     int main() {
       char str[] = "hello";
       strupr(str);
        printf("%s\n", str);
       return 0;
        }
         HELLO
     A)
                                                         B)
                                                              hello
     C) | HELIo
                                                         D)
                                                              Compilation error
     What will be the output of the following code?
        #include <stdio.h> int main()
        {
           char c;
15.
           c = getchar();
           putchar(c);
           return 0;
```

	}		
A)	Echoes the character entered by the user	B)	Prints the string "c"
C)	Prints a newline	D)	Prints the integer value of the character
			entered