## **MCQ** on Structures

1.	What is the keyword used to define a structure in C?				
	A)	struct struct	B)	record	
	C)	class	D)	structure	
2.	How do you access a member of a structure in C?				
	A)	. (dot)	B)	->(arrow)	
	C)	:: (scope)	D)	, (comma)	
3.	How is the size of a structure determined in C?				
	A)	By the size of its largest member	B)	By the total size of its members	
	C)	By the size of its smallest member	D)	By the number of members	
4.	Which statement correctly defines a structure named "Person" with members "name" and "age" of type char and int respectively?				
	A)	struct Person { char name; int age; }	B)	struct Person { name, age; }	
	C)	struct { name; age; } Person;	D)	struct { char* name, int age; } Person;	
5.	Wł	nen should you use a structure instead of an a	rrav	in C?	
	A)	When you need to store elements of different data types	В)	When you need a fixed-size collection of elements	
	C)	When you need a dynamic collection of elements	D)	When you need to perform mathematical operations	
6.	\A/b	at is the size of an ampty structure in C2			
	A)	at is the size of an empty structure in C?  Obytes	B)		
	,	o bytes		1 byte	
	C)	It varies depending on the compiler	D)	4 bytes	
7.	Wł	nich of the following is a collection of different	data	types?	
	A)	String	B)	Array	
	C)	Structure	D)	Files	
8.	Which of the following comment about the usage of structures in true?			structures in true?	
	Λ\	Ctavaria alara san ba assimuad ta	D)		
	A)	Storage class can be assigned to individual member	B)	The scope of the member name is limited to the particular structure, within which it is defined	
	C)	Individual members can be initialized within a structure type declaration	D)	None of above	
9.	In C, can you compare two structures using the equality operator (==)?				
	A)	Yes, always	B)	No, never	
	C)	Only if both structures have the same name	D)	Only if both structures have the same members	
10.	Но	How do you declare an array of structures in C for a structure named myStruct?			

	A)	array myStruct arr[];	B)	myStruct arr;		
	C)	struct array myStruct[];	D)	myStruct array[];		
44	10/1					
11.		nat will be the output of the following C code?				
	#ir	nclude <stdio.h> void main()</stdio.h>				
	{					
		struct student				
	{					
	int no;					
		char name[20];				
		<b>}</b> ;				
	:	struct student s; no = 8;				
		printf("%d", no);				
	}					
	A)	Nothing	В)	Compile time error		
	C)	Junk	D)	8		
12.	Number of bytes in memory taken by the below structure is?					
	Struct test					
	ĺ					
	<b>{</b>					
	int k; char c;					
	};					
	A)	Multiple of integer size	B)	Integer size+character size		
	C)	Depends on the platform	D)	Multiple of word size		
13.	The correct syntax to access the member of the ith structure in the array of structures is?					
	Assuming:					
	struct temp					
	{					
	int b;					
	} s[50];					
	A)	s.b.[i];	B)	s.[i].b;		
	C)		D)	s[i].b;		
		s.b[i];				

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14.
      What is the output of this C code?
      struct student
      };
      void main()
         struct student s[2]; printf("%d", sizeof(s));
      }
                                                         B)
     A)
                                                         D)
                                                               0
     C)
           8
      What is the output of this C code?
      struct
         int k; char c;
15.
     };
     int main()
         struct p;
         p.k = 10; printf("%d\n", p.k);
      }
         Compile time error
                                                         B)
     A)
                                                               10
     C)
                                                         D)
                                                               Segmentation fault
           Undefined behavior
```

## MCO on Array of structures, Pointers, Files

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Given the structure and array declaration below, how do you access the age of the third student in the array?

struct Student
{
    char name[50];
    int age;
};
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	struct Student students[5];					
	A) students[3].age	B) students[2].age				
	C) students.age[2]	D) students[2]->age				
2.	What is the correct way to declare a pointer to a stru	ructure in C?				
	A) struct Person *ptr;	B) Person *ptr;				
	C) struct *Person ptr;	D) *struct Person ptr;				
3.	What is the correct way to open a file named "data.t	txt" in read mode in C?				
	A) FILE *fp = fopen("data.txt", "w");	B) FILE *fp = open("data.txt", "r");				
	C) FILE *fp = fopen("data.txt", "r");	D) FILE *fp = fopen("data.txt");				
4.	What does the fclose() function return if the file is s	1 1 /				
	A) 0	B) 1				
	c) EOF	D) -1				
5.	How do you initialize a pointer to point to the integer					
	int num = 10;					
	,					
	A) int *ptr = num;	B) int *ptr = #				
	C) int ptr = num;	D) int *ptr = *num;				
6.	Which operator is used to access the address of a va	ariable in C?				
	A) *	B) <mark>&amp;</mark>				
	C) @	D) %				
7.	What will be the output of the following code?	int main()				
	{					
	int var = $7$ ; int *p;					
	p = &var printf("%d", *p);					
	}					
	A) <mark>7</mark>	B) The memory address of var				
	C) 0	D) Undefined				
8.	What does the following code snippet do? int m	main()				
	{					
	int arr $[5] = \{1, 2, 3, 4, 5\};$					
	int *ptr = arr; printf("%d", *(ptr + 2));					
	}					
	A) Prints 2	B) Prints 3				
		B) Prints 3 D) Prints 4				
9.	,   1 11110 till dadi 300 01 till till d 310110111					
э.	What is the correct way to access the value of a variable through a pointer?					
	A) &ptr C) ptr*	B) *ptr D) @ptr				
10.	Which of the following functions is used to open a f	1   01				
10.	A) open()	B) Fileopen()				
	()	D) openfile()				
11	' lopen()	, , , , , , , , , , , , , , , , , , ,				
11.	What is the correct way to read a single character from					
	A) char c = fgets(fp);	B) char c = fscanf(fp);				
42	C) char c = fread(fp);	D) char c = fgetc(fp);				
12.	What is the result of the expression ptr++ in C. v	where buris a bointer?				

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Increase the value of ptr by 1
                                                            B)
                                                                Decrease the value of ptr by 1
                                                                It's not a valid operation
         Move ptr to the next memory location
                                                            D)
      What is the output of the following C code? int main()
13.
           char *ptr;
           char mystring[] = "abcdefg";
           ptr = mystring;
           ptr += 5;
           printf("%s",ptr);
                                                            B)
                                                                 fg
     A)
           efg
     C)
           defg
                                                                 cdefg
                                                            D)
      What will be the output of the following C code?
14.
          void main() {
              int a[] = \{1,2,3,4,5\}, *p;
              p = a;
              ++*p:
              printf("%d ", *p); p += 2;
              printf("%d ", *p);
           }
           2 4
                                                                3 4
     A)
                                                            B)
                                                            D)
                                                                2 2
      How do you read a character from a file in C?
15.
           readchar()
     A)
                                                            B)
                                                                 getc()
     C)
           read()
                                                            D)
                                                                 getchar()
```

## **MCQ- Formatted and Unformatted Input-Output**

1.	For every input variable there must be one character group.			
	A)	TRUE	B)	FALSE
	C)		D)	
2.	Which one of the following is not TRUE			
	A)	Multiple number of character	В)	Each input variable must in the address_list
		groups are allowed in a control		must be preceded by an ampersand (&)
		string. They must be separated		symbol.
		by blank spaces.		
	C)	White spaces may be included in the	D)	Address_list must be enclosed within double quotes.
		address_list, but all variables in the		
		address list must be separated by		<del>quotes.</del>
		commas.		
	In the formatted input output functions variables in the address_list_should match.			

	A)	Order of character groups	В)	Number of character group		
3.						
	C)	Data Type	D)	All of the above		
4.	Sel	Select the odd one out				
	A)	putch()	B)	scanf()		
	C)	gets()	D)	puts()		
5.	The format specification for a floating-point number in decimal notation is					
	A)	<mark>%w.pf</mark>	B)	%w.pe		
	C)	%w.pc	D)	%w.pd		
6.	Prin	ntf("%2d",1234); predict the output				
	A)	12	B)	34		
	C)	<mark>1234</mark>	D)	None of the		
7.	Prir	ntf("%-6d",1234); predict the output				
	A)	1234 will be right justified	В)	1234 will be left justified		
	C)	1234 will be negative number	D)	None of the above		
8.	Printf("%010d",123456); predict the output					
	A)	123456	B)	0123456		
	C)	<mark>0000123456</mark>	D)	1234560000		
9.	If y= 456.7353 predict the output Printf("%8.2f",y);					
	A)	456.7353	B)	45.7353		
	C)	456	D)	<mark>456.73</mark>		
10.	Cor	ntrol string of printf()consists				
	A)	Characters that will be placed on the	B)	Character groups		
		screen as they appear.				
	C)	Escape sequence	D)	All of the above		