

CS201

GRAND QUIZ FILE (NEW)

ALMOST 800 + MCQS

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1. ----- is used for input file or for reading from the file.

Tellg()

2. Following is the declaration a ----- array. `int arr[2][2][2]`

3-dimensional

3. `!(x < 3)` means in c++ that

X is greater than 3

4. Which of the following option is correct to compare the declaration of the function?

----- (parameter1, parameter2)

{

// code to be executed

}

Void functionNAME

5. Ofstream is used for -----

Output file stream

6. By default, the starting index of an array in c++ is ____

0

7. How we declare an array of integer data whose size is 20 with array name "count".

Int count [20];

8. Which of the following is a reserve word for data types in c/c++?

Int

9. C was developed with the help of ----- language

BCPL and B

10. An object of ----- class can be created for saving the current position of any opened file before reading from the file.

Streampos

11. C ++ is a ----- language.

High level

12. In while loop, the loop counter is initialized at -----

Before entering the loop

13. What is the output of the following code if the 3rd case is true

Switch (var)

{Case 'a';

Cout<<"apple"<<endl;

Mango

14. ----- character is used to indicate the end of the string.

Null

15. Which of the following is used to perform bit-wise exclusive OR operation?

|

16. If $x = 11$, and $x \% = 3$, then value of x will be----

2

17. A variable of character data type occupies ---- bytes in memory.

1

18. Null character is represented by ---- in c ++?

\0

19. In computer system there are mainly ---- type of softwares.

2

20. There is pointer variable named ptr of type float. Which type of variable address can be store by ptr?

Float

21. A character is stored in the memory in -----

Byte

22. X is an integer variable; what does x++ means,

Add 1 in x value

23. When we call a function, its control-----

Transfers to its definition

24. '\0' takes ---- space in the memory.

1 byte

25. ----- will be used for enclosing function statements into a block?

{ }

26. How can we declare an array of characters whose size is 12 with array name "country"?

Char country[12];

27. Following is the declaration of a 2d array, how many columns are declared for this array.

Int arr[3][2];

2

28. If we assign 2.06721 to an integer variable x, what will be the output if we print x using cout<< statement?

2

29. We can access a global variable ----

From anywhere in the program

30. We use ---- to include all those functions which are located in different files.

Linker

31. A character is stored in the memory in ----

Byte

32. Which is not true regarding structure?

We can declare array of structure

33. Mr. ahmad sleeps thirty hours every day. This sentence is ----

Grammatically correct but illogical

34. ----- will explain the function of a program.

Comments

35. Char **argv can be read as ----

Pointer to pointer to char

36. What will be output of the following code?

```
String name [4] = {"ali", "bilal", "omer", "Ayesha"};
```

```
Cout<< name [0];
```

Ali

37. The data type before a function name represents its,

Return type

37. The expression $((a+b) = 10) \parallel ((x+y) = 20)$ is true only if?

Either $((a+b) ==)$ OR $((x + y) == 20)$ is true

38. = operator is used for ----

Assigning values to variables

39. What is the use of ios::trunc mode?

To truncate an existing file to zero

40. X is an integer variable; what does $x ++$ means,

Add 1 in x value

41. Structures use ---- allocation.

Heap

42. What will be the size of the following character array?

Char name[] = "adeel";

6

43. A ---- is an array of characters that can store number of character specified.

String

44. ----- statement is used to terminate the processing of a particular case and exit from switch structure.

Break

45. If $y = 20$ and $z = y ++$, then the value of z will be-----

2146. If

```
int a = 17;
```

```
int b = 3;
```

```
double c = a/b;
```

what will be value of variable c ?

5

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

```
String grade [3] = {"a", "b", "c"};
```

```
Grade[2] = "f";
```

```
Cout<< grade[2];
```

F

48. Declaration of two-dimensional array of integers having 3 rows and 5 columns is following?

```
int arr [3][5];
```

49. $A = a + 1$; can be written as ----

```
A+ = 1;
```

50. A record is a group of related

Fields

51. What will be the result of arithmetic expression

$$6+48/4*3?$$

42

52. ----- construct is used to execute a set of instructions when a condition is true and other set when it is false?

Ifelse

53. If an array has 50 elements, what is allowable range of subscripts?

0 – 49

54. If `int a = 50;` then the value of `a/= 3;` will be?

16

55. Which of the following option is/are correct about array?

Only one type of elements can store in an array

56. Whenever some number is added in an array name, it will jump as many --- as the added number?

Rows

57. ----- returns true if c is a digit or a letter and false otherwise.

`Int isalnum(int c)`

58. which of the following is the default mode of the opening using of ofstream class?

ios::trunc

59. In which language the compiler of c language is written?

C

60. While loop executes at least?

One time

61. String are accessed by variable of type----

Char

62. Which of the following is the correct operator to compare the values of two variables?

= =

63. Not operator is a -----

Single input operator

64. Pointer points to a particular-----

Memory address

65. A function is a block of statements that can be defined once and used-
---in the program.

As many times as user wants

66. ----- function is used to find the number of characters in a string?

Strlen()

67. != operator is used to check whether the operand on the left-hand side
is-----to the operand on the right-hand-side.

Not equal

68. A while loop may execute ----- or more times.

0

69. How we declare an array of integer data whose size is 20 with array
name "count".

Int count[20];

70. A variable declared within a code block becomes ---- variable for that
block.

Local

71. If a file is opened with ios::out mode, then -----

We can write in this file

72. A function's prototype is written --- the function call.

Before

73. ---- Loop is mostly used to perform repetition of a tasks for a known number of times.

For

74. In shifting operations if zero is inserted at the lest most bit, the negative number will become a ---- number.

Positive

75. It is the job of ---- to transfer the executable code from hard disk to main memory.

Loader

76. RAID stands for-----

Redundant array of inexpensive devices

77. Array indexes start from ----

0

78. In call by reference, ----- of a variable is passed to the called function.

Address

79. How many times the following do-while loop will execute?

```
Int k = 10;
```

```
Do
```

```
{
```

```
Cout << "statements" << endl; ?
```

6

80. The name of a location in memory is called ----

Variable

81. ----- function is used to find the number of character in a string.

Strlen()

82. Which statement is used to close a file?

Myfile.close();

83. ----- allow us to have a memory location and use it as int or char interchangeably.

None of the given

84. While handling files, one can have ---- options

All of the given

85. ----- function is used to determine the next position to write a character while writing into a file.

Tellp()

86. Which is the correct syntax to define a structure named 'student'?

Struct student{

//variables

};

87. < and > both are ---- operators.

Logical

Identify the logical error in the following if condition

88. If ((i<5) && (i>15)) ?

Condition is always false

89. Not operator is a ----

Single input operator

90. The use of *sign in first and second statements is called --- and ---- of pointer.

Int *ptr = &x;

Cout<<*ptr; ?

Referencing, dereferencing

91. C is widely known as development language of ---- operating system.

Linux

92. If x is declare as an integer, what will be result of the given expression?

$X = 2 + 3 * 5 \% 2 + 3 / 2$??

4

93. What will be the correct syntax of declaration of the following statements?

“ptr is a pointer to const int” ??

Const int *ptr

94. After evaluating the expression

95. $X = 10 + 3 * 4 / 2 - 1$, the value of x will be?

15

96. We can read, write and manipulate the same file using ----

Fstream.h

97. Return type of a function that does not return any value must be ----

Void

98. Pointers store the ----

Memory address

99. ----- operator uses the sign ^.

Exclusive OR

100. To get the value stored at a memory address, we use the ----

Dereferencing operator

101. Telling a computer what to do is called ----

Programming

102. Compiler translates high level language program into ---- language code.

Machine

103. Each array declaration must provide the information about all these things except----

The location of the first element to be stored

104. Eof is used to check for the --- of file when a file is being read.

End

105. The result of $4\%3$ will be?

1

106. When the logical operator AND (&&) combine two expression exp1 and exp2 then the result will be true only?

When both exp1 and exp2 are true

107. 'multi[3][3]' element can also be accessed by -----

***(*(multi + 3) + 3)**

108. What is output of following code?

```
Int data [10] = {10,20,30,40,50,60,70,80,90,100};
```

```
Int *xptr =&data [4];
```

```
Int *yptr =&data [6];
```

```
Cout<<xptr + yptr ++; ??
```

120

109. Which of the following is not the subcategory of the system software?

None of the above

110. We get $12 | 8 = \text{-----}$ where "|" is (bit-wise OR) ?

12

111. ----- is a substitute of multiple if statement.

If..elseif statement

112. Find out the logical error in following lines of code.

```
If (x = 10)
```

```
Cout << "x is 10"; ?
```

Assignment operator should not be used for comparison

113. Which is not true regarding structure?

c) we can't declare pointers to structure

114. ----- are used to compiler the code.

Compiler

115. #include <iostream>

#include <cstring>

Using namespace std;

Int main ()

{

Char str1[10] = "hello";

Char str2[10] = "world"; ?

10

116. A --- structure specifies that an action is to be repeated while some condition remains true.

Repetition

117. In which language the compiler of c language is written?

C

118. Characters string are terminated by -----

\0

119. A function is a block of statements that can be defined once and used -
-- in the program.

As many times as user wants

120. ----- is used for output during the process of writing to the file.

Seekp()

In case of two-dimensional array, if you add some number in a two-
dimensional name, it will jump to the next----

Row

121. In while loop the condition is checked ---- the execution of loop.

Before

122. Array indexes start from ----

0

123. Pointers store the ----

Memory address

124. Which step is not performed during a proper program design?

Write details about the performance of program

125, We can say that a pointer is a variable that holds the --- address.

Memory

126. When accessing a structure memory, the identifier to the left of the dot operator is the name of ----

Structure variable

127. From the following; which one is the range of random number generator rand() ?

0 – 32767

128. To read command-line arguments, the main () function itself must be given ---- arguments.

2

129. Which operator has the highest precedence?

(* , - , / , +) ?

*** and / both have the same highest precedence**

130. Suppose we have int y[10];

To access the 4th element of the array we write----

Y[3];

131. What will be the value of the variable output in the given piece of code?

Double output = 0;

Output = (2 +2) * 4 + / (4 - 2);

17

132. What is the output of the following statement?

```
int i = 2.5; do { cout << i * 2; } while (i > 3 && i < 10);
```

error

133. Searching is easier when an array is already sorted

True

134. If an array has 100 elements, what is allowable range of subscripts?

0 - 99

While developing a program; should we think about the user interface?
//handouts main

Yes

A character is stored in the memory in _____

String

These functions seekg() and seekp() requires an argument of type _____ to let them how many bytes to move forward or backward.

Int

dereferencing operator is represented by _____

*

_____ transfers the executable code from main memory to hard disk.

Loader

When the logical operator OR (||) combine two expressions exp1 and exp2 then the result will be false only, //bitwise "or" applies here....

When both exp1 and exp2 are false

suppose we have int y[10]; To access the 4th element of the array we write_____

none of given

we have opened a file stream myfile for reading (getting), myfile.tellg () gives us the current get position of the file pointer. It returns a whole number of type_____

int

ofstream is used for_____

Output file stream

A structure is a collection of _____under a single name.

Variables

In C/C++ the string constant is enclosed corrected r red one

In curly braces

The size of int data type is

4 bytes

In Flow chart process is represented by

Rectangle

If the break statement is missed in switch statement then, // a break statement with no label always completes abruptly, the reason being a break with no label. If no switch, while, do, or for statement in the immediately enclosing method, constructor or initializer encloses the break statement, a compile-time error occurs?

This may cause a logical error

When we are using const keyword with a variable x then initializing it at the time of declaration is, ?

Optional

Which of the following is the correct way to assign an integer value 5 to element of a matrix say 'm' at second row and third column?

`m[2][3] = 5 ;`

How many total elements must be in two-dimensional array of 3 rows and 2 columns?

6

Which of the following is the correct statement for the following declaration?

*ptr is a pointer to const int

What will be the correct syntax to assign an array named arr of 5 elements to a pointer

ptr?

*ptr = arr[5] ;

C is a/an _____ language

object oriented

The variables having a name, type and size are just like empty boxes.

True

What's wrong with this for loop?

```
for (int k = 2, k <=12, k++)
```

the commas should be semicolons

Most efficient method of dealing with structure variables is to define the structure globally

True

There are mainly ----- types of software.//

Two

When a pointer is incremented, it actually jumps the number of memory addresses ?

According to data type

setw is a parameterized manipulator.

True

if (a>b && a>c) then the condition will be true only if

Both a>b and a>c are true

In while loop the loop counter must be initialized,

Before entering the loop

_____ of a variable means the locations within a program from where it can be accessed.

Reference

Switch support_____ data.

Integer

Character

Float

Both integer and character

A function is a block of statements that can be defined once and used _____ in the program.

As many times as user wants

_____ statement is used to terminate the processing of a particular case and exit from switch structure.

break

The most suitable data type for number 325.25 is _____.

float

X is an integer variable; what does X++ means,

Add 1 in X value

The operators ++ and -- are used to increment or decrement the value of a variable by _____

1

Which of the following loops checks the test condition at the end of the loop?

Do-While

The operator to free the allocated memory using new operator is _____.

delete

suppose we have `int y[10]`; To access the 4th element of the array we write_____

`y[3]`;

From the following; which one is the range of Random number generator function `rand()`?

0 - 32767

From following; which one is the correct syntax of an array initialize: Array size is 10 and it is of double data type to value 0?

`double arr[10] = {0.0}`;

The string in the array is terminated by a_____

null

In C/C++; by default arguments are passed by_____to a function.

Value

`char name [] = "Hello World"` ; In the above statement, a memory of_____characters will be allocated

12

_____Keyword is used to return some value from a function.

return

Which of the function call is call by value for the following function prototype? float add(int);

add(x);

The increment of a pointer depends on its_____.

data type

The ASCHI code of null character is_____

000

Pointers are a special type of _____in which a memory address is stored

variables

Transpose of a matrix means that when we interchange rows and columns_____

the first row becomes the first column

Pointers store the _____

value of a variable

Which of the following function call is “call by reference” for the following function prototype? `int add (int *);`

`add(&x);`

The name of the array is a constant pointer which contains the memory address of the _____ of the array.

first element

array name always contains the memory address of the _____ of the array

first element

At the _____, we try to break up the problem into functional units
design phase

Syntax of a union is identical to _____ .

structure

A union is a user-defined data type that contains only _____ from its list of members at a

time.

one object

Which of the given file handling modes are similar in their functionality ?

ios::trunc, ios::ate

Which one of the given option is not a mode for reading/writing the data from a file?

Trunk

In C/C++, the header file used for string manipulation is _____.

string.h

A 2D array multi[5][10] can be accessed using the array name as **multi , this technique is

called _____.

Double dereferencing

C language was evolved from _____ language(s).

B and BCPL

The _____ statement forces the immediate next iteration of the loop.

Continue

_____ are very good tools for code reuse.

Functions

When an argument is passed by reference, _____
the function accesses the argument's original value in the calling program.

_____ executes all the lines before error and stops at the line which contains the error.

Interpreter

Analysis is the ----- step in designing a program.

First

Which of the following is the correct function call, having array named student of 10

elements as a parameter?

addRecord(student);

When an array element is passed to a function, it is passed by

_____.

Reference

What is the correct syntax to declare an array of size 10 of int data type?

int name[10] ;

If we want to copy an array, both arrays need to be of same_____.

Data type and size

Which of the following is the correct syntax to print multiple values or variables in a single command using cout?

```
cout << "H" << x << "\n";
```

Which one of the statements given below is equivalent to $x \%= 5$?

```
x = x % 5
```

The condition in loop should be a(n) _____.

Boolean Expression

Which structure is represented by following flow chart ?

if structure

Stream which sends data to the program is called _____.

Input stream

Syntax of a union is identical to _____ .

Structure

When accessing a structure member, the identifier to the left of the dot operator is the

name of _____.

a structure variable

The parameter passed to isdigit() function is _____.
a character variable

TWAIN stands for _____ .

Technology Without An Interesting Name

_____ translates high level language program into machine language code.

Compiler

From the option given below, what will be the correct output of the code?

```
for (int a = 1; a <= 3; a++)
```

```
    cout<<a*3-1<<" ";
```

2 5 8

If the return type of a function is void then it means that it will _____.

return any type of data

return no data

The functions that have already been defined as a part of the language are called

_____.

built-in functions

Given that doubleArray is an array of 7 integers. Which of the below is the correct statement to access the 5th element of the array?

doubleArray[4]

The symbol which is used to represent a process in a flow chart is

_____.

Rectangle

When an array is passed to a function, by default it will be passed by_____.

Reference

What is the range of Random number generator function rand()?

0 - 32767

The first character of a variable name must be an alphabet or

_____.

Underscore

In _____, the first pointer stores the address of the some other pointer, which contains the address of any variable.

single dereference

Initialization of variable at the time of definition is -----practice.

Good Programming

Which looping process checks the test condition at the end of the loop?

do-while

You can use a _____ statement to transfer control elsewhere out of the nested structure.

Goto

Which of the following array is the most suitable for storing a matrix structure?

Single-dimensional array

The microsoft word document(.doc) is a kind of _____ .

Random Access File

A union is a user-defined data type that contains only _____from its list of members at a time.

one object

In C/C++, _____ are the doors through which data can enter and come out of a program.

Streams

Which one of the given option is not a mode for reading/writing the data from a file?

Trunk

C++ views each file as a sequential stream of _____.

Bytes

In 2D array, the technique used to access the array elements is called _____

Double dereferencing

From the options given below, identify the correct option which is used for calling the function float square (int &);

square (num);

Identify the correct option which is used for calling the function float area (int).

area(num) ;

Which kind of error occurs in the code below to access the variable num in the main function?

```
int num =10;
```

```
int main(){
```

```
int x ;
```

```
x = num ;
```

```
}
```

No error

A program statement that invokes a function is called _____.

function call

What will be the output of the following code segment?

```
main(){  
int a = 10 ;  
int b =0;  
int *x = &a;  
b = (*x)+3 ;  
cout << a << " , " << b ;  
}
```

10,13

When the logical operator AND (&&) combines two expressions exp1 and exp2 then the result will be true only _____

When both exp1 and exp2 are true

For which array, the size of the array should be one more than the number of elements in an array?

char

What is the range of Random number generator function rand()?

0 - 32767

To assigned a value to a character type variable, _____ are used around the value.

single quotes ''

In C/C++, the #include is called_____.

Preprocessor Directive

The number 544.53 must be stored in _____ data type.

Float

Use of the _____ statement violates the rules of structured programming.

Goto

In Flow Chart, flow of control is represented by _____.

Arrow

What will be the correct syntax for initialization of pointer ptr of type int with variable x?

int *ptr = &x ;

Syntax of a union is identical to _____ .

structure

A union is a user-defined data type that contains only _____ from its list of members at a time.

one object

Which of the given file handling modes are similar in their functionality ?

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Reference

The first character of a variable name must be an alphabet or

_____.

Underscore

In _____, the first pointer stores the address of the some other pointer, which contains the address of any variable.

single dereference

Initialization of variable at the time of definition is -----practice.

Good Programming

Which looping process checks the test condition at the end of the loop?

do-while

You can use a _____ statement to transfer control elsewhere out of the nested structure.

Goto

An object of _____ class can be created for saving the current position of any opened file

before reading from the file

Stream

The value returned by the eof() function is of _____ type.

Character

If a file is not properly closed in a program then what is the status of the program ?

The program will terminate normally

The parameter passed to isdigit() function is _____.

a character variable

In C/C++, the header file used for string manipulation is _____.
string.h

Arrays are best data structures _____.
for relatively permanent collections of data

Each array declaration must provide the information about all these things
except

_____.

Number of elements of the array

The First step for developing a program is _____.

Linking

Analysis

_____ transfers the executable code from hard disk to main memory.

Loader

_____ operator is used to pass the address of a variable to the called
function.

&

In call by reference, _____ of a variable is passed to the called function.

Address

_____ of a function is also known as signature of a function.

Declaration

Preprocessor program performs its function before _____ phase takes place.

Compiling

Which of the following is the correct function call, having array named student of 10 elements as a parameter?

`addRecord(student[10]);`

The remainder (%) operator is a _____ operator.

Arithmetic

Which of the following array is the most suitable for storing a matrix structure?

Two-dimensional array

*.doc is _____ by type.

► Random Access File

Which of the following is NOT a preprocessor directive?

- ▶ #define

The return type of operator function must always be void.

- ▶ False

Question No: 4 (Marks: 1) - Please choose one

What does (*this) represents?

- ▶ A value of the data member

The statement cin.get (); is used to,

- ▶ Read a character from keyboard

When we do dynamic memory allocation in the constructor of a class, then it is necessary to provide a destructor.

- ▶ True

Overloaded new operator function takes parameter of type size_t and returns

- ▶ void pointer

The second parameter of operator functions for << and >> are objects of the class for which we are overloading these operators.

- ▶ True

C++ is a case-sensitive language

- ▶ True

To include code from the library in the program, such as `iostream`, a directive would be called up using this command.

▶ `#include <iostream.h>`

A template function must have only generic data types.

▶ True

Template class can not have static variables.

▶ False

What will be the correct syntax to assign an array named `arr` of 5 elements to a pointer

`ptr`?

▶ `*ptr = arr[5];`

What will be the correct syntax to access the value of fourth element of an array using pointer `ptr`?

▶ Both 1 and 3

If most significant bit of un-signed number is 1 then it represents a positive number.

▶ True

If there is a symbol (& sign) used with the variable name followed by data type then it

refers to _____ and if & is being used with variable name then it refers to _____.

- ▶ Reference variable, address of variable

We can also do conditional compilation with preprocessor directives.

- ▶ True

The default value of a parameter can be provided inside the _____

- ▶ function definition

Classes defined inside other classes are called _____ classe

- ▶ nested

What purpose do classes serve?

- ▶ All of the given options

Every class contains _____.

- ▶ Constructor

new operator is used to allocate memory from the free store during

- ▶ None of the given options

When an object of a class is defined inside another class then,

- ▶ Destructor of inner object will be called first

It is possible to define a class within another class.

- ▶ True

New and Delete are also used with _____ and data types as well.

- ▶ Class, Objects

With New keyword, data types and class members are initialized with meaningful values instead of garbage.

- ▶ True

C language is developed by

- ▶ Dennis Ritchie

Which of the following choice is not an example of an int data type?

- ▶ -4.0

In flow chart, the symbol used for decision making is,

- ▶ Diamond

Switch statement deals with,

- ▶ Integer and character data

Default case in switch statement is,

- ▶ Optional

*.doc is _____ by type.

- ▶ Sequential File

Member function tellg() returns the current location of the _____ pointer.

- ▶ tellptr()

Dealing with structures and functions passing by reference is the most economical method

- ▶ True

In C/C++ all character strings are terminated with,

- ▶ Null character

Word processor is <http://vustudents.ning.com>

- ▶ Application software

Which of the following can not be a variable name?

10area

Which looping process is best, when the number of iterations is known?

▶ while

By default an array of characters is passed by value to a function

▶ False

Which of the following operator is used to access the address of a variable?

▶ & operator

The name of an array represents address of first location of array element.

▶ False

Compiler is a

▶ Application Software

If Num is an integer variable then Num++ means,

▶ Add 1 with Num

For one byte there are _____ combinations of values that can be stored in computer.

- ▶ 2^8

In C/C++ language the header file which is used to perform useful task and manipulation of character data is

- ▶ `ctype.h`

Default case in switch statement is,

- ▶ Optional

When break statement is encountered in switch statement, it

- ▶ Exits from switch statement

What will be the result of arithmetic expression $6+27/3*3$?

- ▶ 33

What is the correct syntax to declare an array of size 10 of int data type?

- ▶ `int name[10] ;`

How many dimensions does n-dimensional array has?

- ▶ n dimensions

What will be the correct syntax to access the value of fourth element of an array using pointer ptr?

- ▶ ptr[3]

Which of the following values C++ use to represent true and false?

- ▶ 1 and 0

Declaring structures does not mean that memory is allocated.

- ▶ True

For which array, the size of the array should be one more than the number of elements in an array?

- ▶ char

If a variable is passed by value to a function and the function makes some changes to that variable then it

- ▶ does not affect the original variable

In C/C++ the #include is called,

- ▶ Preprocessor Directive

Loops are ----- Structure.

- ▶ Repetition

the sizeof operator is used to determine the size of _____.
data type

Structures use _____ allocation.

Stack

Which header file must be included to use the functions tolower() and toupper()?

ctype.h

In Analysis, we try to have a _____

Precise problem statement

Pointers store the _____

memory address

_____ Returns true if c is a digit and false otherwise.

int isdigit(int c)

eof is used to check for the _____ of file when a file is being read.

End

The statement `cout << yptr` will show the _____ the `yptr` points to.
memory address

Which of the following is true about streams?

A& B

While handling files, one can have _____ options

All of the given

If an array has 50 elements, what is allowable range of subscripts?

0 - 49

A structure is a collection of _____ under a single name.
variables

`ifstream` is used for _____

Input file stream

The ASCII code of null character is _____

000

dereferencing operator is represented by _____

*

Whenever some number is added in an array name, it will jump as many _____ as the added number.

rows

To access the data members of structure, _____ is used.

Dot operator

Which of the following is true about streams? A. It is a sequence of bytes
B. It is an ordered sequence C. All bytes can

go through the stream simultaneously D. Bytes that enters first into the stream will go out at last

A and B

We use _____ to open a file or stream for extraction

in

char **argv can be read as_____.

pointer to pointer to char

From following; which one is the correct syntax of an array initialize:
Array size is 10 and it is of double data type to value 0?

double arr[10] = {0.0};

Pointers work by pointing to a particular _____
data type

_____ function give the position of the next character to be read
from that file.

tellg()

aFile. seekg (-10L, ios:cur)
backward direction

An object of _____ class can be created for saving the current position
of any opened file before reading from the file.

Stream

Structures are syntactically defined with the word_____.

struct

_____ allow us to have a memory location and use it as int or char
interchangeably

union

Question # 9 of 10 (Start time: 12:25:41 PM) Total Marks: 1

A hierarchy of classes which are used to deal with console and disk files are called _____.

IO classes

_____function is used to determine the next position to write a character while writing into a file.

tellp()

For binary member operators, operands on the _____ drives (calls) the operation.

Left

We cannot increment _____.

references

We can _____ pointer.

all of the given

We can _____ references.

None of the given

What will be the correct syntax for the following function call?

add(x);

An instance of a class is called _____.

object

The _____ is called automatically when an object destroys

destructor

The destructor is used to _____.

deallocate memory

_____ data isn't accessible by non-member functions or outside classes.

private

Member functions of the class _____ main program.

are accessible from

Overloading means :

Using the same name to perform multiple tasks or different tasks depending on the situation.

The main advantage of function overloading is _____.

The program becomes more readable

You cannot overload the _____ operator.

?:

In C++, a variable can be declared anywhere in the program this will increase _____.

efficiency

Memory allocated from heap or free store _____.

cannot be returned back unless freed explicitly using free and delete operators

We cannot use _____ pointer for storing and reading data from it.

'NULL

The dynamic memory allocation uses _____ whereas static memory allocation uses _____.

heap , stack

What will be the output of the given code?

```
#include #define MAX( A, B ) ((A) > (B) ? (A) : (B))
void main() {
int i, x, y;
x = 23;
y = 45;
i = MAX( x++, y++ );
// Side-effect: // larger value incremented twice
cout << "x = " << x << " y = " << y << '\n';
}
```

x=24 y=47

NULL has been defined in _____ header file.

Stdlib.h

Symbolic constant PI can be defined as:

```
#define PI 3.14
```

The friend function of a class can have access _____
to the private data members

C++ was developed by _____.

Bejarne Stroustrup

Once the _____ are created, they exist for the life time of the program.
static variables

Encapsulation means _____.

that the data of a class can be accessed from outside

An address is a _____, while a pointer is a _____.

constant, variable

The syntax of declaration of a function that returns the reference to an integer is _____.

`int & myfunc();`

Which one of the following is mandatory preprocessor directive for c++?

`#include`

The members of a class declared with the keyword `struct` are _____ by default.

`Public`

`getche()` is a _____ function and defined in _____ header file.

built-in function , `conio.h`

_____ operators are the ones that require two operands on both sides of the operator.

`Binary`

_____ will return the number of bytes reserved for a variable or data type.

`sizeof operator`

_____ are not available in C language.

`Library functions`

The members of a class declared without any keyword are _____ by default.

private

For console input and output we use _____.

conio.h header file

The name of the destructor is the same as that of a class proceeding with a _____.

~ sign

A reference cannot be NULL it has to point a data type.

True

A pointer is _____.

a variable for storing address

Constructor is a special function, called whenever we _____.

instantiate an object of a class

Symbolic constant PI can be defined as:

```
#define PI 3.14
```

Object code is machine code but it is not _____ and _____.
relocatable, executable

The default visibility for the data members of the class is
private

accessible outside the class

The _____ is called automatically when an object destroys.
destructor

Constructor is special type of function :
which has no return type

_____ variables are those that are defined outside of main.
Global

Within the statement `obj1=obj2`; `obj1` will call the assignment operator
function and `obj2` will be passed as an argument to function.

True

When the compiler overload the assignment (=) operator by default then
Compiler does member wise assignment.

It is possible to return an object from function using this pointer.

True

Overloaded assignment operator must be

Member function of class

Let suppose

```
int a, b, c, d, e;
```

```
a = b = c = d = e = 42;
```

This can be interpreted by the compiler as

```
a = (b = (c = (d = (e = 42)))));
```

In statement $a+b+c$, at first

$b+c$ is executed first

Suppose `int i = 10`; then what is the output of `cout<<oct<<i`;

12

`ostream` is a _____ operator.

Standalone

_____ must be included to use stream manipulation in your code.

`omanip`

_____ operators are the ones that require only one operator to work.

Unary

The endl and flush are _____.

Manipulators

When operator function is implemented as member function then return type of function _____.

Can be any data type

When a variable is defined as static in a class then _____.

Only one copy is created for all objects of this class

Automatic variables are created on _____.

Stack

```
cout << i << " ";
```

```
cout << d << " ";
```

```
cout << f;
```

Above statements can be written within statement of one line as:

```
cout << i << " " << d << " " << f;
```

dec, hex, oct are all _____.

Non-parameterized manipulators

What will be the output of following statement?

```
cout<<setfill('0')<<setw(7)<< 128;
```

0000128

Which of the following syntax is best used to delete an array of 5 objects named 'string' allocated using new operator.

```
delete []string;
```

If we have a program that writes the output data(numbers) to the disc, and if we collect the output data and write it on the disc in one write operation instead of writing the numbers one by one.

In the above situation the area where we will gather the number is called
Buffer

The first parameter of operator function for << operator _____.

Must be passed by reference

The second parameter of operator function for >> operator must always be passed

By reference

The only operator that the compiler overloads for user define data type by default is-----

Assignment (=) operator

Consider the following code, the printed value will be converted into:

```
int n=10;
```

```
cout <<oct<<n;
```

Base 8

_____ variables are defined in the main.

Local

ostream class is _____ and not under our control.

built-in

The memory allocation in C++ is carried out with the help of _____.

new operator

If B is designated as friend of A, B can access A's non-public members.

A can access non-public members of B

If the request of new operator is not fulfilled due to insufficient memory in the heap _____.

the operator returns 0

We should not use such variable names that are starting with _____ because in C++, there are lots of internal constants and symbolic names that start with it.

double underscore

The friend keyword provides access _____.

in one direction only

The malloc function takes _____ argument(s).

one

The constructor contains _____.

no return type

What will be the output of the following c++ code?

```
#include<iostream.h>
```

```
#define max 100
```

```
main()
```

```
{
```

```
#ifdef max
```

```
Cout<<"Hellow;
```

```
}
```

Error

Once we have defined a symbolic constant value using #define, that value _____ during program execution cannot be changed

The memory allocation functions return a chunk of memory with a pointer of type _____.
ptr

A class can be declared as a _____ of other class.
member

To avoid dangling reference, don't return _____.
the reference of a local variable from the function

Constructor is itself a _____ of C++ and _____.
function, can be overloaded

The parameter passed to isdigit() function is _____ variable.
Integer

char **argv can be read as _____.
pointer to pointer to char

To read command-line arguments, the main() function itself must be given _____ arguments.

How many bytes an integer type pointer intPtr will jump in memory if the statement below is executed?

```
intPtr += 2;
```

8

The increment of a pointer depends on its _____.

data type

The statement cout << yptr will show the _____ the yptr points to.

memory address

_____ is used as a dereferencing operator.

*

Transpose of a matrix means that when we interchange rows and columns _____.

the first row becomes the first column

Individual characters in a string stored in an array can be accessed directly using array _____.

subscript

We can define a matrix as _____ array.

Multi dimensional

A _____ is an array of characters that can store number of character specified.

String

Given a two dimensional array of integers, what would be the correct way of assigning the value 6 to the element at third row and fourth column?

array[2][3] = 6;

_____ of a variable means the locations within a program from where it can be accessed.

Visibility

Which of the following function call is "call by reference" for the following function prototype? int add (int *);

add(&x);

Which of the following function call is "call by reference" for the following function prototype? float add (float *);

add(&x);

Which of the function call is call by value for the following function prototype? float add(float);

add(x);

Which of the function call is "call by value" for the following function prototype? float add(int);

add(x);

Return type of a function that does not return any value must be _____.

void

_____ will be used for enclosing function statements into a block.

{ }

What is the output of the following code if the 2nd case is true

```
switch (var) {  
  case 'a': cout<<"apple"<<endl;  
  case 'b':cout<<"banana"<<endl;  
  case 'm':cout<<"mango"<<endl;  
  default: cout<<"any fruit"<<endl;  
}
```

Banana mango any fruit

When the break statement is encountered in a loop's body, it transfers the control _____ from the current loop.

Outside

What is the output of the following code if the 3rd case is true

```
switch (var) {
```

```
case 'a':cout<<"apple"<<endl;
case 'b':cout<<"banana"<<endl;
case 'm':cout<<"mango"<<endl;
default: cout<<"any fruit"<<endl;
}
```

Mango any fruit

What is the output of the following code, if the first case is true

```
switch (var) {
case 'a':cout<<"apple"<<endl;
case 'b':cout<<"banana"<<endl;
case 'm':cout<<"mango"<<endl;
default: cout<<"any fruit"<<endl;
}
```

Apple banana mango any fruit

What will be the output of following code segment?

```
for (int i = 2; i<10; i++) {
if ( i == 5) continue;
cout << i << ", " ;
}
```

2,3,4,6,7,8,9

_____ statement is used to terminate the processing of a particular case and exit from switch structure.

break

What will be the result of the expression $j = i++$; if initially $j = 0$ and $i = 5$?

5

What will be the result of the expression $k = ++m$; if initially $k = 0$ and $m =$

5

What will be the result of the expression $k = ++m$; if initially $k = 0$ and $m =$ 5?

6

How many times the following do-while loop will execute?

```
int k = 10; do { cout << "Statements" << endl; k -= 2; } while(k>0);
```

6

Which of the following loops checks the test condition at the end of the loop?

Do-While

The operators $++$ and $--$ are used to increment or decrement the value of a variable by _____.

1

How many times the following loop will execute?

```
int j = 3; while(j > 0) { cout << "Statements" << endl; j -= 2; }
```

2

A _____ structure specifies that an action is to be repeated while some condition remains true.

Control

!(x > 3) means in C++ that

x is less than or equal to 3

When the logical operator && combines two expressions then the result will be true only when the both expressions are _____.

true

< and > both are _____ operators.

Relational

What will be the value of variable "input" if the initial value of input is 67?

```
if(input >= 50)
```

```
input = input + 1;
```

```
if(input <= 75)
```

```
input = input + 2;
```

else

input = input - 1;

70

!(x < 3) means in C++ that

x is greater than or equal to 3

!= operator is used to check whether the operand on the left-hand-side is _____ to the operand on the right-hand-side.

Not equal

When the if statement consists more than one statement then enclosing these statement in curly braces is,

Must

The most suitable data type for number 325.25 is _____.

Float

What will be the result of arithmetic expression $6+48/4*3$?

42

Which of the following will be the most appropriate data type to store the value 63.547?

Float

In the given expression which operator will be evaluated first? $10 + (6 / 2) - 2 * 3$?

/

What will be the value of the variable output in the given piece of code?

```
double output = 0;
```

```
output = (2 + 2) * 4 + 2 / (4 - 2);
```

17

It is the job of _____ to transfer the executable code from hard disk to main memory.

Loader

In computer systems there are mainly _____ type of softwares.

2

_____ will explain the function of a program.

Comments

if ($a > b \ \&\& \ a > c$) then the condition will be true only if

Both $a > b$ and $a > c$ are true

A variable of character data type occupies _____ byte(s) in memory.

1

We must include the header file _____ to convert the value of one type into another type using built-in functions.

string.h

A function is a block of statements that can be defined once and used _____ in the program.

As many times as user wants

Select the correct way to assign the address of first element of array to pointer?

```
int *ptr = &data;
```

Consider the following code segment. What will be the output of following code?

```
int addValue (int *a){  
int b = (*a) + 2;  
return b;  
}  
main() {  
int x = 6;  
cout<<addValue(&x)<<" ";  
cout<<x;  
}
```

6,8,6

Here the code is given below. You have to identify the problem in the code.

```
while(i < 10) && (i > 24))
```

the test condition is always false

The correct syntax of do-while loop is _____.

```
do {statements;} while (condition);
```

Matrix is defined as _____.

Multi-dimensional array

In programming, comments are used to explain the functioning of the _____.

Program

Operating System is a type of a/an _____.

system software

From the options given, you need to choose the option which is true for the given code.

```
for (int i = 1; i>0; i++) {  
/*loop code*/  
}
```

the test condition is always true

Which of the following values are used in C/C++ to represent true and false?

1 and 0

'While' loop may execute _____ or more times.

zero

Body of any function is enclosed within _____.

{ }

What will be the correct syntax for initialization of a pointer ptr with string "programming"?

```
char *ptr = "programming";
```

Which one of the given option is not a mode for reading/writing the data from a file?

Get

Which of the following operators is used to access the value of variable pointed by a pointer?

* operator

In case of single dereferencing, the value of the _____ is the address of the _____.

pointer, variable

The remainder (%) operator is a _____ operator.

Arithmetic

What will be the output of following code?

```
int x = 10;
```

```
cout<<"x="<<x;
```

```
x=10
```

The purpose of using cout<< is to _____.

Display information on the screen

Which of the following data types will be assumed if no data type is specified with constant?

short

When an array element is passed to a function, it is passed by _____.

reference

While programming, it is good to provide an easy to understand and easy to use interface; this programming skill is called _____.

usability

_____ executes all the lines before error and stops at the line which contains the error.

Intrepreter

Which of the following is the correct syntax to access the value of first element of an array using pointer ptr?

*ptr[0]

C is a/an _____ language.

function oriented

_____ of a function is also known as signature of a function.

Declaration

_____ are very good tools for code reuse.

functions

If any break statement is missed in switch statement then _____.

this may cause a logical error

A 2D array multi[5][10] can be accessed using the array name as **multi, this technique is called _____.

Double dereferencing

In C/C++, the default command line arguments passed to the main function are _____.

int argc, char **argv

A record is a group of related _____.

Fields

The microsoft word document (.doc) is a kind of _____.

Random Access File

NULL character is used to indicate the _____ of string.

End

How many dimensions does n-dimensional array has?

n dimensions

Which of the following function call is "call by reference" for the following function prototype?

func(&num);

The loop which is most suitable to be used when the number of iterations is known is called _____.

for

In C/C++, the string constant is enclosed in _____.

double quotes " "

In order to get the right most digit of a number, we divide this number by 10 and take _____.

Its remainder

What is the correct syntax to declare an array of size 10 of int data type?

```
int name[10];
```

How many bytes of memory are occupied by array 'str'?

```
char str[] = "programming";
```

11

Suppose that an integer type pointer contains a memory address 0x22f230. What will be the new memory address if we increment this pointer by one?

0x22f234

Which of the following if missing would result in infinite recursion in case of recursive function?

Recursive call

Whenever we use a library function or a predefined object or macro, we need to use a _____.

header file

Switch statement deals with _____ type of data.

Both Integer and Character

Both compiler and _____ are used to translate program into machine language code.

Interpreter

TWAIN stands for _____.

Technology Without An Interesting Name

The parameter passed to isdigit() function is _____.
a character variable

C++ views each file as a sequential stream of _____.
Bytes

Structure is a collection of _____ under a single name.
only variables

The default mode for writing into a file using ofstream object is _____.
out

The memory address of the first element of an array is called _____.
base address

We want to access array in random order which of the following approach is better?

Pointer

The _____ structure is a multiple-selection construct which makes the code more efficient and easy to read and understand.

switch

Which of the following is not a reserved word in C/C++?

Sum

To access rand(), which library is required to be included in program?

stdlib.h

What is the highest legal index for the following array?

```
int arr[4]
```

3

Word processor is a type of a/an _____.

application software

Identify the correct option which is used for calling the function float area (int).

```
area(int num);
```

The _____ statement allows us to select from multiple choices based on a set of fixed values for a given expression.

switch

C is widely known as development language of _____ operating system.

Unix

To convert the value of one type into another type using built-in functions, we include _____ header file.

stdlib.h

The keyword _____ is used to get some value back from a function.

return

The function seekg() takes _____ parameter(s).

2

The function write() takes _____ as parameter(s).

String and no. of bytes to be written

When the logical operator AND (&&) combines two expressions exp1 and exp2 then the result will be true only _____.

When both exp1 and exp2 are true

Syntax of a union is identical to _____.
structure

In Flow Chart, flow of control is represented by _____.
Arrow

There can be _____ 'default' statement(s) in any switch structure.
2

The condition in loop should be a(n) _____.
Arithmetic Expression

How many nested loops would be required to manipulate n-dimensional array?
 $2n$

Which of the following is not an example of int data type?
-4

We should use _____ for clarity and to force the order of evaluation in an expression.
parenthesis ()

Which of the following is the starting index of an array in C++?

0

The statement $x += y$ can be interpreted as _____.

Adding the value of the x to the value of the y and storing the result in x

Given a 2D array of integers, what would be the correct way of assigning the value 5 to the element at second row and third column?

$m[1][2] = 5;$

Array is a data structure that stores _____.

Variables

A program statement that invokes a function is called _____.

function call

The compiler of C language is written in _____ language.

C

Which function is used to locate the first occurrence of a character in any string?

$strlen()$

To access the data members of structure, _____ is used.

Dot operator

In the following nested For Loop, which loop will run most number of times?

```
for( int i = 0; i < 5; i++)  
{  
for(int k = 0; k < 5; k++)  
{  
.....  
}  
}
```

Depends upon the statements in the inner loop's body

Structure use _____ allocation.

Heap

_____ function give the position of the next character to be read from that file.

tellp()

What will be the size of the following character array?

```
char name[] = "Adeel";
```

5

Function prototype is written,
Before call of that function

Which one of the following languages has been used to write the compiler of "C" language?

C

A hierarchy of classes which are used to deal with console and disk files are called _____.

Stream classes

_____ stops execution at the line that contains error(s) in the code.

Interpreter

C++ is a _____ language.

High level

How many elements are stored in the following?

```
int matrix [4][5];
```

20

_____ is a substitute of multiple if statement.

if. .elseif statement

if

```
int sum = 54;
```

Then the value of the following statement is

```
sum = sum - 3;
```

51

What will be the correct syntax for declaration of the following statement?

"ptr is a constant pointer to an integer"

```
const int *myptr;
```

_____ operator is used to pass the address of a variable in call by reference method.

&

_____ data type can operate on modulus operator.

int

Whenever some number is added in an array name, it will jump as many _____ as the added number.

rows

Suppose that an integer type pointer contains a memory address 0x22f220. What will be the new memory address if we increment this pointer by one?

0x22f224

_____ is the pointer which determines the position in a file from where the next read operation occurs.

put

what is the correct context to declare an array of 15 elements of type float?

float array [14]

suppose we have a file with name "mylife.txt" . what will be the correct Syntax of file opening for input?

my file ("myfile.txt". ios::in)

which of the following will be the most appropriate data type to store the value 63.5 47?

Float

----- will explain the function of a program

Comments

these functions Seekg() and seekp() requires an argument of type-----
-- to let them how many bites to move forward or backward

Int

all elements of an array must be of ----- data type

Same

what will be the result of arithmetic expression $6 + 48 / 4 * 3$?

42

----- allow us to have a memory location and use it as int or char interchangeably

none of the given

accessing a structure member the identifier to the left of the dot operator is the name of-----

structural variable

< and > both are----- operators

Arithmetic

what will be the output of the following code segment?

```
For (int = 2; i<10; i ++){  
If ( i = = 5 )  
Continue;  
cout<< i << ".";  
}
```

2,3,4,5,6,7,8,9

----- returns true if she is a digit or a letter and false otherwise

Int isalnum (int c)

if a ----- find an error, it stop translating without generating any E executable code

Compiler

the ASCII code of null character is-----

000

if X = 9; then the expressions x%=2; will calculate the value of x as -----

-

1

the original value means unchanged in -----

Call by Value

which of the following is used to create an account stream?

Ofstream

how many times the following loop will execute?

```
Int j = 3;
```

```
While (j > 0)
```

```
{
```

```
  Cout << " statements" << endl;
```

```
  J - = 2;
```

```
}
```

2

Use of word processor for writing the code of a program is not good because -----

It has less feature for writing code of a program

how many bytes and integer type pointer intptr will jump in memory if the statement below is executed?

`Intptr += 2;`

8

avoid loop may execute ----- or more Times

0

raid stands for -----

redundant array of inexpensive dices

in a file is opened with iOS:: out mode, then-----

a new file is created

first step in designing a program is

Analysis

what will be the result of the expression

`J = i ++`

If initially $j = 0$ and $i = 5$?

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suppose we have `int y [10];`

to access the 4th element of the array be write-----

`Y [3];`

A ----- structure specify that an action is to be repeated while some condition remains true

Control

the most suitable data type for number 325.25 is-----

float

Which one of the following should be placed immediately either before or after the noun?

Modifiers of Nouns

Titles typically include both

a number and a description

For what purposes colons are used?

All of the above

The name of the array is a constant pointer which contains the memory address of the _____ of the array.

first element

What will be the correct syntax for the following function call? float add (int &);

add(x);

In C/C++; by default arguments are passed by _____ to a function.

Value

< , <= , > , >= are called _____ operators.

Relational

char name [] = "Hello World" ; In the above statement, a memory of _____ characters will be allocated

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While developing a program; should we think about the reusability?

Yes

C is widely known as development language of _____ operating system.

Unix

Which of the following function call is “call by reference” for the following function prototype? `int add (int *)`;

`add(&x)`;

If a function has not been declared before its definition, It is a

None of these

While loop executes at least----

Zero time

A _____ is a precise sequence of steps to solve a particular problem.

Program

In while loop the loop counter must be initialized,

Before entering the loop

```
int counter = 0 ;
```

```
while(counter < 15)
```

```
cout << counter << “ ”;
```

```
counter++;
```

Infinite loop

Why we use "cin"?

To read data from keyboard

Loops are _____ Structure

Repetition

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