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C/C++ Interview Questions:

1. When is a switch statement better than multiple if statements?
2. What is the return type of printf library function?
3. What is dangling pointer?
4. How can we achieve run time polymorphism in C++?
5. Library function which is used to convert string value into int value?
6. How the overriding is different than overloading?
7. Explain diamond problem of inheritance?
8. What is the significance of argc and argv in command line arguments ?
9. Can we call any class member function without using object of the class
10. Give uses of scope resolution operator (::) in C++
11. What is importance of this pointer?
12. Writethestatementswhichareusedtoswaptwovariableswithoutusing3rdvariableand

   without using airthematic operators.

13. Explainthepolymorphism?
14. How type conversion is different than type casting ?
15. List the operators which can't be overloaded ?
16. Which operator can replace the if statement in the program?
17. Whatistheroleofabstractclassinc++
18. What is the return type of malloc and calloc function and in which header file they are defined
19. Whatistheoutputofprintf("%d")?
20. Whatisthedifferencebetween"calloc(...)"and"malloc(...)"?
21. Whatisthedifferencebetween"printf(...)"and"sprintf(...)"?
22. Whatisthedifferencebetweennamespaceandassembly?
23. Whatisthedifferencebetweenearlybindingandlatebinding?
24. Whatisthedifferencebetweenstringsandcharacterarrays?
25. Whatisthedifferencebetweenconstchar*pandcharconst*p?
26. Can static variables be declared in a header file?
27. What is a null pointer?
28. What is the difference between text and binary modes of reading and writing files to disk?

29. What is static memory allocation and dynamic memory allocation?
30. Howarepointervariablesinitialized?
31. Whatisthedifferencebetweenarraysandpointers?
32. Isusingexit()thesameasusingreturn?
33. What is indirection?
34. Whatismodularprogramming?
35. What is an lvalue?
36. Differentiatebetweenaninternalstaticandexternalstaticvariable?
37. What is a void pointer?
38. Whenshouldatypecastnotbeused?
39. What is a static function?
40. Differentiatebetweenalinkerandlinkage?
41. Whatisthedifferencebetweendeclarationanddefinition?
42. Whataretheadvantagesofinheritance?
43. Whatareinlinefunctionsandwhentheycanprovebeneficial?
44. WhataretemplatesinC++?
45. Whatkeywordwillyouusewhendefiningafunctioninbaseclasstoallowthisfunctiontobea

    polymorphic function?

46. Why are arrays usually processed with for loop?
47. Whatisthedifferencebetweenmacroandinline?
48. Howcanweaccessprotectedandprivatemembersofaclass?
49. In the derived class, which data members of the base class are visible?
50. WhatistheneedforaVirtualDestructor?
51. What is the Standard Template Library (STL)?
52. WhatisdifferencebetweenClassandStructureinC++?

53. WhywecreateNULLpointers?
54. Whydoweusefilehandling?
55. Which function is used to position back from the end of file object?
56. What is a stream?
57. Whatisthedifferencebetweenrealloc()andfree()?
58. CanConstructorofclassbeprivate?
59. Canlocalandglobalvariablesbesamenames?
60. What type of functions are nonmember functions of a class but are granted the same privileges

as methods of the class.
61. The constructor that performs an initialization using another object of the same class is called

as?
62. InC++,Whichkeywordcanyouusewithavariablesothatwhenfunctioniscalledbyreference

and still prevent the function from changing its value?
63. How many destructors can a class have?
64. Out of fgets() and gets() which function is safe to use and why?
65. Why doesn't this code: a[i] = i++; work?
66. Aretheexpressions*ptr++and++*ptrsame?
67. What would be the equivalent pointer expression foe referring the same element as

a[p][q][r][s]?
68. Are the variables argc and argv are always local to main?

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69. Canmain()becalledrecursively?
70. Howisafileclosed?
71. What is the purpose of ftell ?
72. Difference between an array of pointers and a pointer to an array?
73. CanaStructurecontainaPointertoitself?
74. How many ways are there to initialize an int with a constant?
75. Why shouldn't I start variable names with underscores?
76. Is a default case necessary in a switch statement?
77. Canthelastcaseofaswitchstatementskipincludingthebreak?
78. Which bit wise operator is suitable for checking whether a particular bit is on or off? 79. Can the sizeof operator be used to tell the size of an array passed to a function?
80. When should the register modifier be used? Does it really help?
81. WAP to add two strings without utilizing "+" operator?
82. DifferencebetweenC&C++?
83. Difference between SQL & C++?
84. WhatarecharacterconstantsinC++?
85. WhatarestreamsinC++?WhatarepredefinedstreamsinC++?
86. Explain tokens in C++.Also tells about their role and importance.
87. WAP to reverse a linklist?
88. WAPtoprintreverseofagivensequence?
89. WAP for Armstrong, palindrome, Fibonacci sequence.
90. WAPtoswaptwovalueswithoutusingthirdvariable.
91. Describe Structure Vs Union Vs Class.
92. Writeapseudocodeforuploadingaphotoonyourfacebook?
93. WAP to print "1,4,7,6,9,1"(Simple jst print as it is without any logic).
94. Whatarederiveddatatypes?NametheuserdefineddatatypesinC++.
95. Whether higher normal forms better than lower forms as far redundancy is concerned? 96. How would you input data to your code?
97. Whatarethesimilaritiesanddifferencesbetweenaclassandastructure?
98. Givemeanexampleofdatatypes?(buttheyuseadifferentwordforitsobeready).
99. Giverealworldexamplesofdifferenttypesofdatastructures.

100. Describe database tuning.
101. What is the difference between undefined and NULL?

102. What is array?
103. Write down array declaration of 5 elements.
104. Write a program to check whether a given number is prime or not.
105. What is Inheritance?
106. Difference between overloading and overriding.
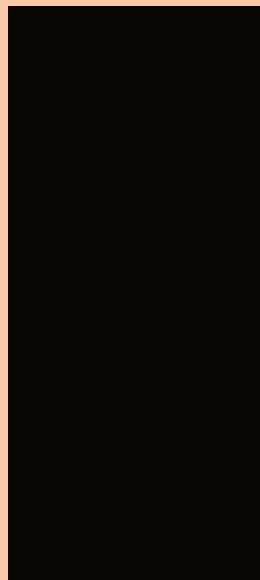107. What is the use of Normalization?

DBMS QUESTIONS

1. Define Database.
2. What is DBMS?
3. What are the various kinds of interactions catered by DBMS?
4. Segregate database technology's development.
5. Who proposed the relational model?
6. What are the features of Database language?
7. What do database languages do?
8. Define Database Model.
9. What is SQL?

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10. Enlist the various relationships of Database.
11. DefineNormalization.
12. AdvantagesofNormalizedDatabase.
13. DefineDDLandDML.
14. Enlist some commands of DDL and DML.
15. DefineUnionAllOperatorandUnion.
16. Define Cursor and its types.
17. DefineSubquery.
18. Why is Group Clause Used?
19. CompareClusterandNon-ClusterIndex.
20. DefineAggregateFunctions.
21. DefineScalarFunctions.
22. What restrictions can you apply when you are creating views?
23. Define "Co-related Subqueries".
24. Define Data Warehousing.
25. DefineJoinanditstypes.
26. What do you mean by index hunting?
27. How does Index hunting help in improving query performance?
28. Enlist the Disadvantage of Query.
29. Enlist ways to efficiently code transactions
30. What is Executive Plan?
31. What is B+ Tree?
32. DifferentiateTableScanfromIndexScan.
33. What do you mean by Fill Factor concept with respect to indexes?
34. DefineFragmentation
35. Differentiate Nested Loop, Hash Join and Merge Join.
36. What is Database partitioning? And its Importance.
37. What do you mean by Query Evaluation Engine?
38. DefineDDLInterpreter
39. Define Atomicity and Aggregation.

40. Enlist the various transaction phases.
41. Define Object-oriented model.
42. DefineEntity.

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43. What do you mean by Entity type extension?
44. What are two methods of retrieving SQL?
45. What cursor type do you use to retrieve multiple recordsets?
46. What is the difference between a "where" clause and a "having" clause?
47. What is the basic form of a SQL statement to read data out of a table?
48. What structure can you implement for the database to speed up table reads?
49. Whatarethetradeoffswithhavingindexes?
50. What is a Constraint?
51. What is Primary Key?
52. What is a "functional dependency"? How does it relate to database table design?
53. What is DBA?
54. Difference between Primary, Foreign, Candidate & Super key?
55. Differenttypeofdatabases?
56. Whatisnormalization?
57. Briefly explain the method you will use to execute an array linked list?
58. GivemeaQuerytofindoutthesecondlargestcompensationinanorganization?
59. What is the implementation of merge?
60. Writetheconnectioncodetoadatabase?
61. How did you create it in your project?
62. Whatisthesignificanceofdijkastraalgorithm
63. Can a database table exist without a primary key?
64. What is the reason behind using "Inner Join" and "Outer Join"?

OPERTING SYSTEM:

1. What is O.S.?
2. What is a semaphore?
3. Difference between semaphore & mutex?
4. What is a deadlock?

COMPUTER &PROGRAMMING BASICS:

1. What are the four division in Cobol.
2. What is the significance of 01,77,88,66 levels.
3. What is the Function of compiler.
4. Difference between object file & exe file?
5. Describe tags in HTML5.

EMBEDDED SYSTEMS:

1. What do you mean by frequency and clock rate?
2. What are the differences between processor and controller.
3. What is an embedded system? Relate it with real world example.
4. What is the functioning of Touchscreen?
5. What is Direct Memory Allocation?
6. What is Paging?

7. Difference between interrupt and polling.
8. Which O.S are you using?
9. Describe in brief about RAM and ROM?
10. What is Flash memory?

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DIGITAL ELECTRONICS:

11. ExplainthetypesofFinitestatemachines? 12. Whatareuniversalgates?

ANALOG ELECTRONICS:

1. Draw a complimentary symmetric push pull amplifier.

NETWORKING:

1. Define the terms OSI, TCP, and IP.

SIGNAL AND SYSTEMS:

2. Why we need Fourier transform?
3. What is difference between Fourier Series and Fourier Transform?
4. What is difference between Fourier Transform and Laplace Transform?
5. Difference between Laplace and Z- Transform?
6. Difference between DFT and FFT
7. Difference between DTFT and DFT
8. What pole and zero of transfer function signifies?
9. What is impulse function?
10. What is unit step function?
11. What is LTI system?
12. What is impulse response of system?
13. What is step response of system?
14. What is FIR filter?
15. What is IIR Filter?
16. whensystemiscalledacausalsystem?
17. What is Linear System?
18. What is Energy Signal?
19. WhatisPowerSignal?
20. Differencebetweenanaloganddigitalsignal.

RECENT TECHNOLOGY:

1. What is the recent technology used in the field of Big Data?
2. Facebook is implemented in which language?
3. Difference between Big data and Cloud Data.
4. Basics of Big data analysis. (To be asked)
5. What is cloud computing?
6. Describe in brief about i3,i5&i7 processors.
7. What is datamining and datawarehouse?
8. What is GPS?
9. What are the new things happening in the field of automation?
10. What is android?

GENERIC:

1. What is electronics all about?
2. Why gold is yellowish in color?

3. How to find efficiency of a system?
4. State Bernoulis principle.
5. State Archimedes principle.
6. State Netwon's Three laws.
7. State Faraday's law.
8. State Coulomb's law.
9. What is centre of gravity?
10. StateLenzlaw.
11. WhatisPotential&kineticenergy?
12. Whatisthedifferencebetweenstressandstrain?
13. WhatisSDLC(softwaredevelopmentlifecycle)?
14. Whatisthedifferencebetweeninnovationandcreativity?

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