freelance_Project available to buy contact on 8007592194

| SR.NO | Project NAME | Technology |
|--------------------|-------------------------------------|---------------------------|
| NOTE OF THE PERSON | E-Learning HUB | React+Springboot+MySql |
| | PG MATES | React+Springboot+MySql |
| 3 | Tour and Travel | React+Springboot+MySql |
| 4 | Marriage Hall booking | React+Springboot+MySql |
| 5 | Bus ticket booking Mini Project | React+Springboot+MySql |
| 6 | Quizz App /Exam Portal Mini Project | Springboot,MySql,JSP,Html |
| 7 | Event Management System | React+Springboot+MySql |
| 8 | Hotel Mangement System | React+Springboot+MySql |
| 9 | Agriculture Web Project | React+Springboot+MySql |
| 10 | AirLine Reservation System | React+Springboot+MySql |
| 11 | E-Commerce Web Project | React+Springboot+MySql |
| 12 | Sport Ground Booking | React+Springboot+MySql |
| 13 | CharityDonation web project | React+Springboot+MySql |
| 14 | Hospital Management Project | React+Springboot+MySql |
| 15 | Online voting System Mini project | Springboot,MySql,JSP,Html |
| 16 | E-Commerce shop mini project | Springboot,MySql,JSP,Html |
| 17 | Job Portal web project | React+Springboot+MySql |
| 18 | Insurance policy Portal | React+Springboot+MySql |
| 19 | Transpotation Services portal | React+Springboot+MySql |
| 20 | E-RTO Driving licence portal | React+Springboot+MySql |
| 21 | doctor Appointment Portal | React+Springboot+MySql |
| 22 | Online food delivery Project | React+Springboot+MySql |
| 23 | Muncipal Corporation Management | React+Springboot+MySql |
| 24 | E-College Portal Project | React+Springboot+MySql |
| 25 | Gym Management | React+Springboot+MySql |
| X 26 | Bike Booking System Portal | React+Springboot+MySql |
| 27 | Food Waste Management Portal | React+Springboot+MySql |
| 28 | Online Pizza delivery Portal | React+Springboot+MySql |
| 29 | Fruite Delivery portal | React+Springboot+MySql |
| 30 | HomeRental Booking Project | React+Springboot+MySql |
| 31 | FarmerMarketplace | React+Springboot+MySql |
| 30 | HomeRental Booking Project | React+Springboot+N |



| Q1. Lir | nked link are | not superio | or to STL vector | S | | | |
|-----------------------------|---|---|---|---|---------------------------------------|---|--|
| a) Tru | e | I | b) False | | | | |
| Q2. De | _ | de in a linke b) False | d list is a simple | matter of us | sing the dele | te operator to | free the node's memory |
| Q3. Th | e advantage | e of link list | over array is | | | | |
| a) | Link list ca | n grow and | shrink in size d | uring the tim | 1 е | | |
| b) | Less space | is required | for storing elem | nents | | | |
| c) | Both 1 and | 2 are corre | ct | | | | |
| d) | None of th | e above | | | | | |
| a) Quio Q5. Th | ck Sort e inorder tr me tree pro | b) Merg aversal of so duced the s | ome binary tree |) Bubble Sor prod <mark>uces th</mark> | rt d) ne sequence the following | Binary Search DBEAFC, and t g is correct pre | technique he postorder transversal of order transversal sequence? f the above |
| | | | oe contained in | | / | / / | |
| a) 0 | b) . | At least 1 | c) Any n | umber | d) None of | the above | |
| Q7. If | graph G has | no edges th | nen correspo <mark>ndi</mark> | ng adjacency | y matrix is | | |
| | matrix | _ | b) Zero ma <mark>trix</mark> | | c) Matrix w | vith all 1's | d) None of the above |
| a) It is | hat is not tr easier to prequires spac | rogram | • | ssing? t may includ All are true | e more collis | sion | |
| | gorithms ca OGRAMS | n be represe | ented in various b) FLOWCHAF | | | N CHARTS | d) SPREADSHEET |
| Q10. T a) Larg c) Sma | | at the root | of heap is b) Depending d) None of the | | eap it may b | oe smallest or l | argest |
| Q11. T a) Fror | | | element gets acodo d) Bottom | dded to queu | ie is called | | |



PG DAC Feb 20 Data Structure Question Bank

| a) | Arrays | b) Arrays or linked list | c) Only linked lis | t d) None | of the above |
|------------|---|---|---|---|-------------------------------|
| | t is connect If it is r If it con | is said to be a tree, if it satisfiented and there are no cycles in not connected and there are connected and there are cycles in the above | the graph. ycles in the graph | erties: a) | |
| a | A record k | refers to the process of deriving ey from storage address point code from a record key | b) \$ | storage address from | om a record key |
| tra tra | | rder traversal of some binary se same tree produced the seq sence? b) ABEDFC | • | • | g is a correct preorder |
| | .6. Which of empty(Q) | f the following is not an operatory b) deque(Q,X) c) enque(Q, | | ning that queue h | as items `Q` and `X`? |
| | .7. In an adj Similar colu | acency matrix parallel edges a mns b) Similar | / - / | ot representable | d) None of the above |
| | .8. A dynam) heap | iic data structure where we <mark>ca</mark> b) binary <mark>sear</mark> o | | I records in O(log2 rcularly linked list | n) time is d) array |
| | .9. We can e | efficiently reverse a string usin ue b) circular que | | t ack d) doub | oly linked list |
| ро | pped four t shed back o | items: A, B, C, D and E are pus imes and each element is inse on the stack. Now one item is p b) B | rted in a queue. The | en two elements a | re deleted from the queue and |
| | 1. The men | nory address of the first elements b. foundation address | nt of an array is cal c. first address | | |
| Q2 | 2. The men | nory address of fifth element o | of an array can be ca | alculated by the fo | rmula |

a. LOC(Array[5]=Base(Array)+w(5-lower bound), where w is the number of words per memory cell for the

array

2



| b. | LOC(Array[5])=Base array | e(Array[5])+(5-lower bound), | where w is the numbe | r of words per mem | ory cell for the |
|-------------------|---|---|--------------------------|------------------------------------|---------------------|
| c. arra | | e(Array[4])+(5-Upper bound) | where w is the numb | er of words per mem | nory cell for the |
| | None of above | | | | |
| a. | None of above | | | | |
| Q2: | 3. Which of the follo | wing data structures are inde | exed structures? | | |
| a) | linear arrays | b) linked lists | c) both of above | d) none of ab | ove |
| | 4. Which of the follogist be sorted | wing is not the required cond | lition for binary search | algorithm?a) The I | ist |
| b) | there should be | the direct access to the mide | lle element in any sub | list | |
| c) | There must be n | nechanism to delete and/or | insert elements in list | d) none of above | |
| | | | | 97 | |
| | | wing is not a limitation of bir | . / / | | |
| a) r | | ray / / / / / / / / / / / / / / / / / / / | | M Company | |
| b) | requirement of s | sorted array is expensive who | en a lot of insertion an | <mark>d deletio</mark> ns are need | ed |
| c) | there must be a | mechanism to access mid <mark>dle</mark> | element directly | | |
| d) | binary search al | gorithm is not efficient <mark>whe</mark> | n the data elements a | re more than 1000. | |
| | | | | | |
| | 6. Two dimensional a | | | | |
| a) 1 | tables arrays | b) matrix arrays | c) both of above | d) none of abov | e |
| ∩2 [.] | 7. A variable P is calle | ed nointer if | | | |
| a) | | ddress of an element in DAT | Δ / | | |
| ս, b) | | ddress of first element in DA | | | |
| c) | · | memory addresses | | | |
| d) | · | ATA and the address of DATA | | | |
| uj | r contain the Dr | tra and the address of DATA | | | |
| Q2 | 8. Which of the follo | wing data structure can't sto | re the non-homogene | ous data elements? | |
| | Arrays | b) Records | c) Pointers | d) No | ne |
| | | | | | |
| | _ | element from list we make | | | |
| a) i | t is an list | b) it is not a invalid list | c) it is not an e | mpty list | d) it must be full. |
| | 0. Each data item in a ecomposable are cal | a record may be a group iten led | n composed of sub-ite | ms; those items whic | ch are |
| | Elementary items | b) atoms | c) scalars | d) all of abov | e |



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| Q31. T | he difference | between linear arra | ay and a record is | | | |
|--------------------------|------------------------------|---|---------------------|-----------------|-----------------|---------------------------------------|
| a) | An array is s | uitable for homoger | neous data but the | e data items ir | a record may l | have different data type |
| b) | In a record, t | there may not be a i | natural ordering i | n opposed to I | inear array. | |
| c) | A record for | m a hierarchical stru | icture but a linear | array does no | ot | |
| d) | All of above | | | | | |
| Q32. V | Which of the f | ollowing statement | is false? | | | |
| a) | Arrays are d | ense lists and static | data structure | | | |
| b) | data elemen | its in linked list need | not be stored in | adjecent spac | e in memory | |
| c) | pointers sto | re the next data ele | ment of a list | | | |
| d) | linked lists a | re collection of the | nodes that contai | n information | part and next p | oointer |
| a) sort Q34. \ | ed linked list When new dat | Sitil | ary trees c) so | VIUI | | ter array space; this situation is |
| | y called derflow | b) overflow | c) housef | | d) saturated | |
| a) unc | JETTIOW | b) overnow | c) Housei | uli | u) saturateu | |
| Q35. T | he situation v | when in a linked list | START=NULL is | | | |
| a) und | erflow | b) overflo | w | c) houseful | Λ | d) saturated |
| 036 V | Mhich of the f | ollowing name does | not relate to star | rkc2 | | |
| a) FIFC | | b) LIFO list | c) Piles | A A | ush-down lists | |
| a) gro | unded header | following is two way list eader and trailer noo | | b) circular h | | |
| Q38. T | he term "pus | h" and "pop" is rela | ted to the | | | |
| a) arra | у | b) lists | c) stacks | d) a | all of above | |
| | | re where elements of Stacks c) Queues | | emoved at eit | ner end but not | in the middle |

Q40. When inorder traversing a tree resulted E A C K F H D B G; the preorder traversal would return

c) EAFKHDCBG

d) FEAKDCHBG

b) FAEKCDHGB

a) FAEKCDBHG



| Q41. V | Vhich data stru | | _ | nts from fro | nt and inserting a | - | |
|---------------|------------------|--------------------|----------------------------------|----------------------------|-----------------------------------|-----------------------------|------------------|
| Stacks | | b) Queues | c) Deques | | d) Binary search | tree | |
| Q42. I | dentify the data | a structure whic | n allows deletions | at both en | ds of the list but i | nsertion at c | only one end. |
| a) Inpi | ut-restricted de | eque | b) Output-restrict | ted deque | c) Priority | y queues | d) None of above |
| Q43. V | Vhich of the fol | llowing data stru | cture is non-linea | ar type? | | | |
| a) Strii | ngs | b) Lists | c) Stacks | d) Nor | ne of above | | |
| Q44. V | Vhich of the fol | llowing data stru | cture is linear typ | e? | | | |
| a) Strii | ngs | b) Lists | c) Queues | | d) All of above | | |
| Q45. T | o represent hie | erarchical relatio | nship between el | ements, wl | nich data structure | e is suitable $\widehat{:}$ |) |
| a) Dec | ue | b) Prior | ty c) - | Ггее | d) All of above | V. | |
| 046 4 | hinary tree wh | nose every node | has either zero o | r two childi | en is called | | |
| | mplete binary | V. | y search tree | | ended binary tree | d) Non | e of above |
| | | | | | | | |
| | • | complete binary | | /// | | | _ |
| a) | Dn = n log2n | b) Dn = | n log2n+1 | c) Dn | = log2n | Dn = log2n+ | +1 |
| Q48. V | Vhen represent | ting any algebrai | c expression E wh | nich us <mark>es or</mark> | <mark>ily b</mark> inary operatio | ons in a 2-tre | ee, a) |
| the va | riable in E will | appear as exter | nal n <mark>odes and</mark> op | erations in | internal nodes | | |
| b) | the operation | s in E will appea | r as <mark>external</mark> node | es a <mark>nd varia</mark> | bles in internal no | odes | |
| c) | the variables a | and operations i | n E <mark>will app</mark> ear on | ly in intern | al nodes | | |
| d) | the variables a | and operations i | n E will appear on | ly in exterr | al nodes | | |
| Q49. <i>A</i> | binary tree ca | n easily be conv | erted into q 2-tre | e | | | |
| a) | by replacing e | ach empty sub t | ree by a new inte | rnal node | | | |
| b) | by inserting a | n internal nodes | for non-empty no | ode | | | |
| c) | by inserting a | n external nodes | for non-empty n | ode | | | |
| d) | by replacing e | each empty sub | tree by a new ext | ernal node | | | |
| O50 \ | Whon convertin | a hinary troo int | a avtandad hinar | v troo all ti | ne original nodes i | in hinary tro | n aro |
| | rnal nodes on | • | | • | des on extended 1 | • | carc |
| • | shed on extend | | 27 | | e of above | | |
| O51 T | he nost order t | raversal of a him | ary tree is DFRFC | A. Find out | the pre order trav | versal | |
| a) ABF | • | b) ADBI | • | ABDECF | d) ABDCE | | |



PG DAC Feb 20 Data Structure Question Bank

| Q52. Which of the following sorting algorithm is of divide-and-conquer type? a) Bubble sort b) Insertion sort c) Quick sort | d) All of above |
|--|-----------------------------------|
| Q53. An algorithm that calls itself directly or indirectly is known as a) Sub algorithm b) Recursion c) Polish notation | d) Traversal algorithm |
| Q54. In a binary tree, certain null entries are replaced by special pointers which | point to nodes higher in the tree |
| for efficiency. These special pointers are called a) Leaf b) branch c) path d) thread | |
| Q55. The in order traversal of tree will yield a sorted listing of elements of tree in | n |
| a) Binary trees b) Binary search trees c) H | eaps d) None of above |
| Q56. In a Heap tree a) Values in a node is greater than every value in left sub tree and smaller the | nan right sub tree |
| b) Values in a node is greater than every value in children of it | |
| c) Both of above conditions applies | |
| d) None of above conditions applies | |
| OF7. In a graph if a-[u, u]. Then u and u are called | |
| Q57. In a graph if e=[u, v], Then u and v are called a) endpoints of e b) adjacent nodes c) neighbors | d) all of above |
| Q58. A connected graph T without any cycles is called | |
| a) a tree graph b) free tree c) a tree | d) All of above |
| Q59. In a graph if e=(u, v) means | |
| | u and ends at v |
| c) u is processor and v is successor d) both b and | l c |
| Q60. If every node u in G is adjacent to every other node v in G, A graph is said to a) isolated b)complete c) finite d) stro | o be ongly connected |
| Q61. Two main measures for the efficiency of an algorithm are | |
| a) Processor and memory b) Complexity and capacity c) Time and | d space d) Data and space |
| O62. The time factor when determining the efficiency of algorithm is recovered | hv. |
| Q62. The time factor when determining the efficiency of algorithm is measured a) Counting microseconds b) Counting the number of I | |

d) Counting the kilobytes of algorithm

c) Counting the number of statements



| | • | or when determinii imum memory ne | | of algorithm is mea | asured by | |
|---------|-----------------|--------------------------------------|-----------------------------------|--------------------------------|----------------------|---------------|
| b) | _ | minimum memory | _ | | | |
| c) | Counting the | average memory i | needed by the al | gorithm | | |
| d) | Counting the | maximum disk spa | ace needed by th | e algorithm | | |
| Q64. V | Vhich of the fo | ollowing case does | not exist in com | plexity theory | | |
| a) | Best case | b) Worst | case c) i | Average case | d) Null case | |
| Q65. T | he Worst case | occur in linear sea | arch algorithm w | rhen a) | | |
| | Item is some | where in the middl | e of the array | | | |
| b) | | the array at all | | | | |
| c) | | st element in the a | • | | 37 | |
| d) | Item is the la | st element in the | array or is not th | nere at all Mant | ri 🛦 | |
| Q66. T | he Average ca | se occur in linear s | search algori <mark>thm</mark> | 7/ | | |
| a) | When Item is | somewhere in th | e middle o <mark>f the</mark> | array | | |
| b) | When Item is | not in the array at | t all | | | |
| c) | When Item is | the last element i | n the ar <mark>ray</mark> | | | |
| d) | When Item is | the last element i | n the a <mark>rray or i</mark> s | not the <mark>re at all</mark> | | |
| | | | | | | |
| Q67. T | he complexity | of the average cas | se o <mark>f an algo</mark> rithi | m is | | |
| a) | Much more o | complicated to ana | aly <mark>ze than t</mark> hat o | of w <mark>orst cas</mark> e | | |
| b) | Much more s | impler to analyze t | t <mark>han that</mark> of wor | st case | | |
| c) | Sometimes m | ore complicated a | ind some other t | imes simpler than t | hat of worst case d) | None or above |
| Q68. T | he complexity | of linear search al | gorithm is | | | |
| a) O(n) | | b) O(log n) | c) O(n2) | (| d) O(n log n) | |
| Q69. T | he complexity | of Binary search a | algorithm is | | | |
| a) O(n) | | b) O(log) | c) O(n2) | d) O(n log n) | | |
| | • | y of Bubble sort al | _ | | | |
| a) O(n) | | b) O(log n) | c) O(n2) | d) O(n lo | og n) | |
| | - | of merge sort alg | | | | |
| a) O(n) | | b) O(log n) | c) O(n2) | d) O(n l | og n) | |



| | he indirect cha rnal change | ange of the valu | nes of a variable in or b) inter-module cha | | y another module is) side effect | called d) side-module update |
|---------|--------------------------------|-------------------|--|----------------------------|--------------------------------------|---------------------------------|
| | | _ | ructure is not linear (| | | |
| a) Arra | ys | b) Linked lists | c) Both of a | bove | d) None of ab | ove |
| Q74. \ | Which of the fo | ollowing data st | ructure is linear data | a structure? | | |
| a) Tree | es | b) Graphs | c) Arrays | d |) None of above | |
| Q75. T | he operation o | of processing ea | ich element in the lis | st is known a | as | |
| a) Sc | orting b) N | 1erging | c) Inserting | d) Trave | ersal | |
| Q76.F | inding the loca | ition of the eler | nent with a given va | lue is | | |
| | raversal | b) Sea | _ | | d) None of ab | ove |
| | | Chi | iram . | Ma | ntri | |
| Q77. A | rrays are best | data structures | ururu. | LVIU | TILI L | |
| a) | for relatively | permanent col | lections of data | | | |
| b) | | the structure a | and the data i <mark>n the st</mark> | tructure are | constantly changing | ; c) |
| ۹/ | | | iation | | | |
| d) | for none of al | ove situation | | | 7 / | |
| Q78. L | inked lists are | best suited | | | | |
| a) | for relatively p | permanent coll | ection <mark>s of data</mark> | | | |
| b) | for the size of | the structure | and <mark>the data</mark> in the s | st <mark>ructure</mark> ar | e constantly changir | ng c) |
| | for bo | th of above situ | ation | | | |
| d) | for none of ab | oove situation | | | | |
| Q80. E | ach array decla | aration need no | ot give, implicitly or ϵ | explicitly, th | e information about | |
| a) the | name of array | | | b) the da | ta type of array | |
| c) the | first data from | the set to be s | tored | d |) the index set of the | e array |
| Q81. T | he elements o | f an array are s | tored successively in | memory ce | lls because | |
| a) | by this way co | • | ep track only the add | dress of the | first element and th | e |
| eleme | nts can be calc | ulated | | | | |
| b) | the architectu | ire of compute | r memory does not a | allow arrays | to store other than s | serially c) |
| | both o | of above | | | | |
| d) | none of above | e | | | | |



| Q82. | When is a line | ar queue said to b | e empty? | | | | | |
|-----------------------|---|--|---------------------------------|--------------------|-----------------------|-----------------------------|---------------------|-----------------------------------|
| a) fro | ont > rear | b) front = = | - 1 c) | front > r | ear + 1 | | | d) rear = = front + 1 |
| i) In s ii) mem | equential repre Linear queue ory is not allow | | s logically as wastage as | well as reuse o | physicall f | ly full | | |
| iii) | A Queue-full i & ii | condition for a cir b) i & iii | cular queue c) ii & | | efront + d d) All. | 1'a) | | |
| Q84. | Queue-full con | dition for the circu | ılar queue r | epresen | ted sequ | entially is | s? | |
| a) fro | ont = = rear | b) rear + | 1 + front | c) (rea | ar+1)%ar | raysize = | = front | d) None of the these |
| | In a linked repr ta, link, header | resentation a node - b | e consists of o) Only link f | 7 | f the foll | 731 | elds? lata field | d) Data and link fields. |
| a) Ar | In case of a link rays are used to Iks have a array | A | next link. | - V | J- | d node h bove Q87 | | the next node |
| | Which of the fo | ollowing is not true | e regar <mark>ding</mark> | a singly | linked lis | t? a) | | |
| b) | The last node | e is pointing to NU | LL in <mark>dicatin</mark> g | g the en | d of list | | | |
| c) | • | a node always sta | | | | verses th | rough every | subsequent nodes d) |
| | | main function whi | ch takes cor | nmand l | ine argu | | · | |
| • | nt main(int arg nt main(int arg | c, char *argv) c, char *argv[]) | | | | • | • | rgv, int argc) rgv[],int argc) |
| Q90. a) va | | acro, we can displa b) va_list | ay the argur c) va_ | | | ole numbo d) va_sta | | ent function? |
| | ude <stdio.h> ain()</stdio.h> | e output of the fol 2.5,5.4,7.3,21.6,8. | 0. | gram? | | | | |



PG DAC Feb 20 Data Structure Question Bank

```
printf("%d\n",sizeof(arr)/sizeof(arr[0]));
       return 0;
}
   a) 4
                      b) 5
                                    c) 8
                                                           d) 20
Q92. What is the output of the following program?
Int main()
{
       Int j,sum;
       for( j=1, sum=0; j<5; j++)
       sum+=j;
sum=j;
              cout<<sum;
              return 0;
}
  a) 5
                                           c) Compilation error: undefined variable sum and j
                                                                                                       d) 6
Q93. A program P reads in 500 integers in the range [0 to 100] representing the score of 500 students. It then
prints the frequency of each score above 50. What would be the best way for P to store the frequencies?
                                                                                                           a)
An array of 50 numbers
                                                   b) An array of 100 numbers
c) An array of 500 numbers
                                                   d) A dynamically allocated array of 550 numbers
Q94. Which is true about reference variable?
a)
       A reference can never be null
       A reference once established cannot be changed
b)
       Reference doesn't need an explicit dereferencing mechanism.
c)
       All of the above.
d)
Q95. Dynamic objects are stored in
a) Code segment
                                     b) Data segment
                                                                  c) Heap
                                                                                  d) Run time stack
Q96. What is the output of the following code? const
int a=124;
void main()
{
     const int* Sample();
int *p; p=Sample();
       cout<<*p;
```

const int* Sample()



| { | return (&a); | | | |
|----------------|--|--|-------------------------|-----------------------------------|
| } a) V | Varning | b) compilation error | c) output : 124 | d) garbage value |
| Q97. \ a) 1 | What is the size of poin b) 2 c) 4 | nter in C++ on 32 bit archite d) It depends on size of th | | e to which pointer is pointing to |
| Q98. \ | Which are the main th | ree features of OOP languag | ge? | |
| a) | Data Encapsulation, | Inheritance and Exception h | nandling | |
| b) | Inheritance , polymo | rphism and exception hand | ling | |
| c) | Data encapsulation, | inheritance and polymorpl | nism | |
| d) | Overloading, inherita | ance and polymorphism | | |
| a) Nor | mal member function | | TIT COLOR | or d) None of the above |
| class E | Read the code carefu | lly | | |
| { | Jase | | | |
| privat | e: int I; protected: ir | nt j; | | |
| | public: int k; | | | |
| } ; | | | | |
| class L | Derived:public Base | | | |
| ι privat | e: int x; protected: i | nt v: | | |
| | public: int z; | - | | |
| } ; | | | | |
| | | sizeof(Derived) by | tes on a 32 bit archite | cture. |
| a)12 , | 12 b) 12 , 16 c | d) 4, 16 | | |
| Q101. | Static_cast can be ap | plied at | | |
| a) Cor | npile time | b) runtime | c) linking time | d) both a and b |
| | Which inheritance type B: public C | pe is used in the class given | below? Class A: | |
| - | lti-level | b) multiple | c) hybrid | d) hierarchical |



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| Q103. Which o | of the following op | perators cann | not be overloaded? | | |
|-------------------|--|--|--|--------------------------------|-----------------------------|
| a) [] | b) -> | c) | ?: | d) * | |
| Q104. Which o | of the following S [*] b) list | | will store the elem | ents in adjacent men d) map | nory locations? |
| ., | 3, | | ., | ш,р | |
| | _ | atement is in | correct regarding i | | |
| a) It speeds i | • | | - | slows down executi | |
| c) It increase | s the code size | | d) A | function can be inlin | e without inline specifier. |
| Q106. Which o | of the following is | not a membe | er of class? | | |
| a) Static func | tion | b) frien | d function | c) constructor | d) virtual function |
| O107. In which | operator overloa | ading compil | er implicitly passes | a dummy integer as | an argument? |
| | ent / decrement | H H/* H H/* H | H H/H/H I N/H | rement / decrement | |
| c) Both the ab | V/ | | the same of the sa | of the above | |
| | | | | | |
| Q108. Which o | of the following is | correct state | me <mark>nt regard</mark> ing ab | stract class? | |
| a) Abstract c | lass object can't k | oe created | | b) Pointer to abst | ract class can be created |
| c) Reference | to abstract class | can be create | ed | d) All of the abov | re |
| 0400 D day! | ala attaca da la tala | C. 15 . C. 11 . | | 12 | |
| _ | | | ving is not inherited | V A | d) All af the above |
| a) Friend fun | iction | b) Constr <mark>ucto</mark> | or c) Overioa | ded = operator | d) All of the above |
| Q110. What is | the output of the | following pr | ogram? class mycla | ass | |
| { | | | | | |
| public: | | | | | |
| | static int counter | ; | | | |
| } ; | | | | | |
| void main() | | | | | |
| { | | | | | |
| | | cout< <m< td=""><td>yclass::counter; }</td><td></td><td></td></m<> | yclass::counter; } | | |
| a) Output 0 | b) Compila | tion error | c) Linking error | d) Output garba | ge value |
| Q111. What is | the primary purp | ose of templ | ate function? | | |
| a) To allow | w a single functio | n to be used | with varying type | s of arguments | |
| b) To hide | the name of the | function fror | n the linker (preve | nting duplicate symbo | ols) |

c)

To improve execution speed of the program



| d) | To enable better debi | ugging | | | |
|-----------------|-----------------------------------|---|-----------------------------------|----------------------|----------------------|
| | Which of the following | g data structure may give ov ize? | erflow error, even t | though the current | number of |
| a) Simp | ole queue | b) Circular queue | c) Primary queue | e d) Sta | ack |
| Q113. | The most appropriate | matching for the following p | pairs: | | |
| a) | Bubble sort | 1) O(nlog(n)) | | | |
| b) | Insertion sort | 2) O(n) | | | |
| c) | Quick sort | 3) O(n^2) | | | |
| a) a=1 | b=2 c=3 | b) a=3 b=1 c=2 | c) a=3 b=2 c=1 | d) a= | 2 b=3 c=1 |
| | | in null entries are replaced be called | oy special pointers v | which point to nod | es higher in the |
| a) roo | t | b) node c) br | anch d) |) thread | |
| Q115. | a binary search tree w | hose left subtree a <mark>nd right</mark> s | ubtree <mark>differ in</mark> hei | ght by at most one | unit is called. |
| a) AV | L tree | b) Red-black tree | c) L <mark>emma tr</mark> ee | d) No | one of the above |
| Q116. | algoritl | nm is not an e <mark>xample o</mark> f divi | de <mark>and conq</mark> uer rule | e. | |
| a) Qu | ick sort | b) bubble sort | c) merge sort | d) binary sea | arch |
| | | stack ope <mark>rations c</mark> ould resu | | | |
| a) Pu | sh | b) pop c) is_ | full d) |) none of the abov | e |
| Q118. | Which of the following | g sorting algorithm has the w | orst time complexi | ity of nlog(n)? | |
| a) He | ap sort | b) Insertion sort | c) Selection sort | d) Bucket so | rt |
| Q119. a) 3 | The number of binary b) 5 c) 7 | trees with 3 nodes which wl d) 9 | nen traversed in po | st order gives the s | sequence A, B , C is |
| Q120. a) n-1 | · · | n leaf nodes, all at same lev) 2n d) 2n-1 | el. The number of n | non-leaf nodes in s | uch tree is |
| | Queue can be used to | · | | | |
| a) Re | ecursion | b) Breadth- first sea | rch c) Depth | – first search | d) None of these |



| - | hain of respons uilder pattern | ibility | • | rpreter pattern oter pattern | |
|--------------------------|---|--|--|--|-------------------------|
| Factor | | • | o limit the class insta Builder design patte d) Singleton design | ern | ct? a) |
| Q124. known | - | h outlives the program ϵ | execution time and ϵ | exists between execu | tions of the program is |
| a) Glob | al object | b) persistent object | c) transient ob | ject d) de | legate object |
| interfa | = - | attern you would use to | b) Ada | class interface into a | a compatible target |
| c) Faça | de design patte | m Shrira | d) Brid | ge design pattern | |
| Creation | The adapter, bronal pattern avioral pattern | idge and composite desi b) Structural pattern | gn patterns are exar | raction pattern | a) |
| | Communication havior diagram | diagram, sequence diag b) Structu | gram and timing diag ure diagram | gram can all be categ c) Activity diagram | |
| Q128. True | | not superior to STL <mark>vecto</mark> b) False | ors a) | | |
| Q129. a) Tru e | _ | in a linked list is a simpl b) False | e matter of using th | e delete operator to | free the node's memory |
| Q130. | The advantage | of link list over array is | | | |
| a) | Link list can gro | ow and shrink in size du | ring the time | | |
| b) | Less space is re | quired for storing eleme | ents | | |
| c) | Both 1 and 2 ar | re correct | | | |
| d) | None of the ab | ove | | | |
| Q131. a) Quic | | ne following algorithm is b) Merge Sort | NOT an example of c) Bubble Sort | · · · · · · · · · · · · · · · · · · · | echnique nary Search |



| Q132. The inorder traversal of some binary trothe same tree produced the sequence DEBFC/ | • | ence DBEAFC, and the postorder transversal of ing is correct preorder transversal sequence? |
|--|--|---|
| a) DBAECF b) ABEDFC | c) ABDECF | d) None of the above |
| Q133. How many cycles should be contained in a) 0 b) at least 1 c) any nu | n a tree? Imber d) None of the a | above |
| Q134. If graph G has no edges then correspon a) unit matrix b) zero matrix | ding adjacency matrix c) matrix with al | |
| Q135. What is not true for linear collision produced | _ | |
| | include more collision | 1 |
| c) It requires space for links | d) All are true | |
| Q136. In an adjacency matrix parallel edges ana) Similar columns b) Similar | | presentable d) None of the above |
| Q137. The element at the root of heap is a) Largest | | |
| b) Smallest | | |
| c) Depending on type of heap it may bed) None of the above | s <mark>mallest</mark> or largest | |
| Q138. The end at which a new element gets a a) Front b) Rear c) Top | | d |
| Q139. If we traverse a following tree in Pre or | der then what will be t | traversal |
| | |) None of the above |
| Q140. A graph is said to be a tree, if it satisfies a) If it is connected and there are no cycles in | • • | ies |
| b) If it is not connected and there are cyc | | |
| c) If it connected and there are cycles in the | | |
| d) None of the above | ine grupii | |
| Q141. Hashing refers to the process of deriving | g | |
| a) A record key from storage address | b) Storag | ge address from a record key |
| c) A floating-point code from a record key | d) None | of the above |



| | | • | • | | e postorder traversal of |
|---|---|---|----------------------------|-------------------|--------------------------|
| | • | • | _ | · | rder traversal sequence? |
| a) DBAECF | b) ABEDFC | c) ABDECF | d) None of the above | е | |
| Q143. What | is not true for lin | ear collision processir | ng? | | |
| a) It is easie | r to program | b) It i | may include more coll | ision | |
| c) It require | s space for links | d) All | are true | | |
| Q144. In an | adjacency matrix | parallel edges are giv | en by | | |
| a) Similar co | lumns | b) Similar row | c) Not repres | entable | d) None of the above |
| Q145. What | is the output of t | the following program | ? | | |
| #include <io< td=""><td>stream> using na</td><td>mespace</td><td></td><td></td><td></td></io<> | stream> using na | mespace | | | |
| std; enum | _ | • | | | |
| test | C | 10 10 1 10 01 10 | n Man | 4-12 | |
| { | | nrıran | t IVI an | Irla | |
| | 2, B , C; | | | | |
| } ; | | | | | |
| int main() | | | | | |
| { | 1 | | | | |
| | < <a<<","<<b<<",< td=""><td>"<<c;< td=""><td></td><td></td><td></td></c;<></td></a<<","<<b<<",<> | "< <c;< td=""><td></td><td></td><td></td></c;<> | | | |
| retu | rn 0; | | | | |
| } | | | | | |
| a) 32, 32, 3 | 32 | b) 32 ,33 , 34 | c) 32, <mark>31, 30</mark> | d) None of the | e above |
| | | | | | |
| Q146. A dyr | namic data structi | ıre where we can seai | rch for desired records | s in O(log2n) tin | ne is |
| a) heap | b) binary search | tree c) circularly linke | d list | d) | array |
| | | | | ŕ | • |
| Q147. We c | an efficiently reve | erse a string using a | | | |
| a) linear que | eue | b) circular que | eue c) sta | ck d) dou | ıbly linked list |
| | | | | | |
| | ing a node in a lir | • | atter of using the dele | te operator to f | ree the node's memory. |
| a) True | | b) False | | | |
| Q149. The ii | norder traversal c | of some binary tree pro | oduces the sequence | DBEAFC, and th | e postorder traversal of |
| the same tr | ee produced the s | sequence DEBFCA. Wh | nich of the following is | a correct preoi | rder traversal sequence? |
| a) DBAECF | b) ABE | OFC c) ABD | DECF d) No | ne of the above | |
| Q150. What | is not true for lin | ear collision processir | ng? | | |
| | r to program | | _ | ude more collisi | ion |



| c) It re | quires space for link | S.S. | d) All ar | e true | | | |
|---|---|--|--------------------------------|---------------------|---|--|--|
| | In an adjacency ma lar columns | trix parallel edges are give b) Similar row | | epresentable | d) None of the above | | |
| The bir resulta Select | nary search tree use int tree? | | atural numbers. | | y empty binary search tree. traversal sequence of the | | |
| Q153. a) Data c) Com Q154. | Two main measures a and space. plexity and capacity The complexity of t | s for the efficiency of an a | lgorithm are k orithm is | o) Processor and me | | | |
| a) | 1.0 | icated to analyze than th | | | | | |
| b) | • | r to analyze than that of v | | | | | |
| c) | Sometimes more c | omplicated and some oth | er times simpler | than that of worst | case d) None or above | | |
| a) Cour c) Cour Q156. a) Cou b) c) | c) Counting the average memory needed by the algorithm | | | | | | |
| Q157. | Which of the follow | ing case does not exist in | complexity thec | pry | | | |
| a) Be | est case | b) Worst case | c) Average case | d) Null case | | | |
| | The running time of O(n log n) | insertion sort is b) O(log n) | c) O(n) | d) O(n^2) | | | |
| Q159. | Q159. Which of the following sorting procedure is the slowest? | | | | | | |
| | Quick sort | b) Merge sort | c) Bubble sort | d) Heap | sort | | |



| Q160. The correct o | rder of the efficiency of th | ne following | g sorting algorithms acc | ording | to their overall running |
|--|--|-----------------------------|-----------------------------------|-----------|----------------------------|
| time comparisons is | | | | | |
| a) bubble>selection | >insertion | b) Insert | ion>selection>bubble | | |
| c) Merge=Quick=He | ар | d) none a | bove | | |
| | teratively passes through | | change the first elemen | t with a | any element less than it |
| • | th a new first element is o | | | | |
| a) quick sort | b) s | election so | ort | | |
| Q162. The way a car | d game player arranges h | is cards as | he picks them one by o | ne can | be compared to |
| a) Quick sort | b) Insertion sort | c) Se | lection sort d) Me | rge sor | t |
| Q163. Which among | the following is the best | when the li | ist is already sorted | A. | |
| a) Merge sort | b) Quick sort | c) In | sertion sort | d) Se | lection sort |
| Q164. Which of the | following sorting algorith | m is o <mark>f divid</mark> | de-and-conquer type? | | |
| a) Bubble sort | b) Insert | ion s <mark>ort</mark> | c) Quick sort | d) All | l of above |
| Q165. An algorithm | that calls itself directly or | indirectly i | s know <mark>n as</mark> | | |
| a) Sub algorithm | b) Recur | sion | c) P <mark>olish no</mark> tation | d) Tra | aversal algorithm |
| Q166. Representation | on of data structure in me | mory is kno | own as: | | |
| a) recursive | b) abstract <mark>data</mark> | type | c) storage structure | A | d) file structure |
| | ined to be a mathematica ations on that model. | l model of | a user-defined type alo | ng with | the collection of all |
| a) Cardinality | b) Assign | nment | c) Primitive | d) Stı | ructured |
| Q168. An algorithm algorithm is in the o | is made up of two indepe rder of | ndent time | complexities f (n) and | g (n). Tl | hen the complexities of th |
| a) f(n) x g(n) | b) Max (f(n),g(n)) | c) Mi | in (f(n),g(n)) | d) f(n |) + g(n) |
| | maintenance work, you a | | | rrangin | g the library books in a |
| a) Bubble sort | b) Quick | sort | c) Insertion sort | d) 9 | Selection sort |
| _ | me of merge sort can be | - | · · | /a) . a | N T/ \ 2T/ /2\ |
| a) T(n)=2T(n/4)+n | b) T(n)=2 | 2T(n/2)+n | c) T(n)=2T(n/ | 2)+2 | d) T(n)=2T(n/3)+n |



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| Q171. You have a sorted array and n array is also sorted, the best sorting | = | · · · · · · · · · · · · · · · · · · · | that array so | that the resulting |
|--|---|---------------------------------------|--------------------------------|--------------------|
| a) Bubble sort | b) Selection sort | c) Insertion s | ort d) Me | erge sort |
| Q172. The input to a merge sort is 6 algorithm in this case | 5,5,4,3,2,1 and the sam | e input is applied to q | uick sort then | which is the best |
| a) Merge sort | b) Quick sort | c) Cannot be decided | t | |
| Q173. The memory available for sto approach amongst the following | rage is less, in this case | e if you want to sort th | ne data which i | s the better |
| a) Merge sort | b) Quick sort | c) Heap sort | d) All | |
| Q174. Arrange heap sort, merge sor a) heap>merge>quick Q175. One of the reason why quick | b) quick <heap<merg< td=""><td>e c) merge>qui</td><td>ck>heap</td><td>d) none</td></heap<merg<> | e c) merge>qui | ck>heap | d) none |
| a) its running time is O(n) | b) its s | pace complexity is th | eta(log n), | |
| Q176. The running time of quick sor a) arrangement of elements | - 17 | f pivo <mark>t eleme</mark> nt | c) small list, | d) none |
| Q177. The running time of heapify is a) T(n) = T(2n/3) + Omega(1) | | = T(2n/2) , T(n) = T(2 | n) | c) None |
| Q178. Which of the following stater | nents are right about r | adix sort? | | |
| a) LSD radix sort is a stable sort | b) MSI | O radix sort is a stable | sort | c) None. |
| Q179. LSD radix sort is applied on the numbers just before the MSD is con a) (21,29,86,33,124,163) | | | 0,163. What wi c) (21,29,12 | |
| Q180. The worst case time and worst O(k*lg (N)) b) O(N^2) c) O(k*N) | • | ty of radix sort is: a) | | |
| Q181. The Worst case occur in linea | r search algorithm who | en | | |
| a) Item is somewhere in the mi | • • | | | |
| b) Item is not in the array at all | | | | |
| c) Item is the last element in th | ie array, | | | |

Item is the last element in the array or is not there at all

d)



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Q182. The Average case occur in linear search algorithm

When Item is not in the array at all.

a)

b)

When Item is somewhere in the middle of the array.

| c) | When Item is | the last element | in the arra | у. | | |
|-------------|------------------|---------------------|--------------|----------------------|---|------------------|
| d) | When Item is | the last element | in the arra | y or is not there a | at all. | |
| 0183. | Arravs are bes | t data structures | | | | |
| a) | - | permanent colle | | ata | | |
| b) | - | the structure an | | | are constantly | |
| • | | of above situation | | | , | |
| _ | none of above | | | | | |
| a) The | name of array | | irai | icitly or explicitly | b) The data type of array d) The index set of the array | y |
| | | ollowing data str | | | | |
| a) line | ar arrays | b) linked lists | c) both of | above d) none | of above | |
| 0106 | Which of the f | ollowing is not th | o required | condition for him | ary coarch | |
| | hm? a) | _ | - U | | e direct access to the | |
| _ | e element in ar | | , sorted, tr | | | |
| | | chanism to dele | te and/or i | nsert elements i | n list c) | |
| - | e of above | | / | | | |
| | | | | | | |
| | | ollowing stateme | | | | |
| a) | • | nse lists and stati | | | | |
| b) | | | | - | space in memory | |
| c) | - | e the next data e | | | | |
| d) | linked lists are | e collection of the | e nodes tha | t contain inform | ation part and next pointer | |
| Q188. | Binary search | algorithm cannot | be applied | lto | | |
| a) sort | ed linked list | ı | o) sorted bi | nary trees | c) sorted linear array | d) pointer array |
| | | | | | | |
| | • | inserted at the en | | • | ->- | |
| a) End | key. | b) Stop | key. | c) Sentinel. | D) Transposition. | |
| 0190 | The goal of ha | shing is to produ | ce a search | that takes | | |
| ~_JU. | 5001 01 110 | oo io to produ | 4 5-41-611 | ac canco | | |



| a) O(1) time | b) O(n2) time | c) O(log n) time | d) O(n log n) time | | | |
|---|--|--|---|--|--|--|
| Q191. The largest element or a) lower bound. | f an array index is calle b) range. | ed its c) upper bour | d. d) All of these. | | | |
| Q192. When new data are to usually called | be inserted into a dat | a structure, but there | is no available space; this situation is | | | |
| a) underflow | b) overflow | c) house full | d) saturated | | | |
| Q193. Which of the following a) grounded header list c) linked list with header and | | b) circular header lis | t | | | |
| Q194. Which of the following | g name does not relate | e to stacks? | <i>V</i> | | | |
| a) FIFO lists | b) LIFO list | c) Piles | d) Push-down lists | | | |
| Q195. A data structure wher | e elements can be add | led or removed at eith | <mark>er end but</mark> not in the middle | | | |
| a) Linked lists | b) Stacks | c) Queues | d) Deque | | | |
| Q196. Identify the data struction a) Input-restricted dequetc) Priority queues | | | | | | |
| Q197. Which of the following a) Strings b) Lists of | | -linear t <mark>ype?</mark> d) Non <mark>e of abo</mark> ve | | | | |
| Q198. What is the postfix for | orm of the following p | refix *+ab–cd | | | | |
| a) ab+cd-* | b) abc+*- | c) ab+*cd- | d) ab+*cd- | | | |
| Q199. The situation when i | n a linked list START=N | NULL is | | | | |
| a) underflow | b) overflow | c) house full | d) saturated | | | |
| b) for both of above situ | ucture and the data in | manent collections of c | | | | |
| c) for none of above situ | Jation | | | | | |
| Q201. In list implementation | | - | | | | |
| a) the data | b) the link | c) the link and | the data d) non above | | | |



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| Q202. The link field in the last node of the | ne linked list contains | | |
|---|---|--------------------------------|-----------------|
| a) Zero value | b) link to the | first node | |
| c) Pointer to the next element location | d) all above | | |
| | | | |
| Q203. To delete a node at the beginning | | | ddress of the. |
| a) second element in the list | | b) first element in the list | |
| c) last element in the list | | d) no element | |
| Q204. A linked list in which the last node | e points to the first is called | d a | |
| a) Doubly linked list b) (| Circular list c) Generalized | list d) reveres li | st |
| Q205. A doubly linked list facilitates list t | traversal in | 197 | |
| a) Any direction b) (| Circular direction | c) Either direction | d) no direction |
| Q206. In the linked list representation of | f the stacks <mark>, the top</mark> of the | stack is represented by | |
| a) the last node b) any of the | he nodes c) first | <mark>node d</mark>) non abov | e |
| Q207. Polynodes consists of three fields | representing | | |
| a) Coefficient, exponential and link | | m and the link | |
| b) Previous item link, data item and | | exponential and link | |
| | | | |
| Q208. Linked list data structure usage of | ff <mark>ers cons</mark> iderable saving in | | |
| a) Computational time | | b) Space utilization | |
| c) Space utilization as well as computati | ional time. | d) all above | |
| Q209. Whether a list is full or empty is g | iven by the | | |
| | • | c) The size of the list | d) zero value |
| Q210. To represent hierarchical relations | ship between elements, w | hich data structure is suital | ole? |
| • | Free d) All of | | |
| | · | | |
| Q211. The depth of a complete binary tr | ee is given by | | |
| a) Dn = n log2n b) I | Dn = n log2n+1 | c) Dn = log2n | d) Dn = log2n+1 |
| Q212. When inorder traversing a tree re | esulted F.A.C.K.F.H.D.B.G. th | ne preorder traversal would | l return |
| <u> </u> | | · | AKDCHBG |
| , | | ,, -, - | · |

Q213. The post order traversal of a binary tree is DEBFCA. Find out the pre order traversal



| a) ABFCDE b) ADBFEC | | c) ABDECF | d) ABDCEF | |
|---|----------------------------|-----------------------------------|--|-------------------------------------|
| Q214. In a binary tree, of for efficiency. These spe | | | pecial pointers which | n point to nodes higher in the tree |
| a) Leaf b) bra | • | c) path | d) thread | |
| Q215. The in order trav | ersal of tree will | yield a sorted listing | of elements of tree | in |
| a) Binary trees | b) Binary | search trees | c) Heaps | d) None of above |
| Q216. If every node u ir a) isolated b) compl | - | | in G, A graph is said gly connected | to be |
| Q217. A binary tree of ca) Each leaf in the tree i | | | ry tree if | A. |
| b) For any node "n' leaves, are also at level None of the abo | "d" d) Both a & | | at level "d" all the le | of the descendents of "n" that are |
| Q218. The degree of a r | ode in a genera | l tree ca <mark>n be</mark> | | |
| a) maximum two | b) two | c) more than two | d) zero | |
| Q219. In an ordered tre | e the left most s | son is the | | |
| a) oldest son | b) youngest s | son c) left so | on d) Non | e of the above |
| Q220. An element of a t | ree is called a | | | |
| a) node b) | root | c) leaf | | |
| Q221. The node which a | - | branch node is called grandfather | I the c) root node | |
| Q222. Going from leave | s to the root is o | called | | |
| a) traversing | b) | descending | c) climbing | |
| Q223. A binary tree in v | • | | | |
| a) Strictly binary tree | b) | complete binary tree | e c) alm | ost complete binary tree |
| Q224. In the inorder tre | e traversal the r | oot is visited | | |
| a) before left subtr | ee visit | b) in between su | ubtree visits | c) before right subtree visit |



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Q225. In the sequential representation of binary tree implementation each node of the tree will have a) no link field b) info, left, right and father fields three fields, data and the pointers to left and right subtrees. c) Q226. An adjacency matrix representation of a graph cannot contain information of: b) edges c) direction of edges d) parallel edges a) nodes Q227. In Breadth First Search of Graph, which of the following data structure is used? c) Linked List. d) None of the above. a) Stack. b) Queue. Q228. The binary tree in which the descendent points to the ancestor is called? a) linked tree b) threaded tree c) pointer tree Q229. A binary tree whose every node has either zero or two children is called: a) Complete Binary Tree b) Binary Search Tree c) None of the Above d) Extended Binary Tree Q230. What is the output of the following program? #include <iostream> int main() { char arr[20]; int I; for(i=0;i<10;i++) *(arr+i)=65+l; *(arr+i)='\0'; cout<<arr; return(0); } Select one: a) มมมมมม b) ABCDEFGHIJ c) None of these d) AAAAAAAAA Q231. What is the running time of the following code fragment? for (int i=0; i<10; i++) for (int j=0; j<N; J++) for (int k=N-2; k<N+2; K++) cout<<in<<" "<<j<<end a) O (log N) b) O (N) d) O (N log N) c) O (N²)



| | The initial configur a minimum of? | ation of the queue is a, | b, c, d (a is the fi | ront end).To get the confi | guration d, c, b, a one |
|-------------------|------------------------------------|---|----------------------|-----------------------------|-------------------------|
| a) | 2 deletions and 3 a | dditions | | b) 3 deletions and 4 add | ditions |
| c) | 3 deletions and 2 a | dditions | | d) 3 deletions and 3 add | ditions |
| Q233. | What is the infix ve | ersion of the following p | ostfix expression | า? X12+z17Y +42*/+ | |
| a) x+1 | 2+z/ (17+y)*42 | | | b) x+12+z ((17+y)*42 | |
| c) x+1 | 2+z/17+y*42 | | | d) x+12+z)/ (17+Y*42) | |
| Q234. | Linked lists are not | used in: | | | |
| a) Link | ker b) OS | c) None of th | nese | d) Compiler | |
| Q235. | The balance factor | for an AVL tree are: | | | |
| a) 0, 1 | , or -1 | b) All of these | c) 1, 2 or 3 | d) 0, 1 or 2 | |
| Q236. List no | - T | he following class whos | e underlying dat | a structure is a linked lis | t of of |
| class L | _ist{ | | | | |
| public | : | | | | |
| //othe | er public functions | | | | |
| ~List() | ; private: | | | | |
| struct | | | | | |
| Listno | de{ int | | | | |
| item; | | V / | | | |
| node ¹ | *next; | | | | |
| } ; | | | | | |
| | ode*head; | | | | |
| } ; | | | | | |
| | | wing sequence of code on the code of code on the code of the code | | the destructor~List () to o | correctly delete all of |
| I. | for(ListNode*n=he | ead;head!=NULL;head=r | n){ n=head->nex | t; | |
| delete | e head; | | , , | | |
| } | | | | | |
| II. | for (ListNode *n=h | head;n!=NULL;n->next){ | delete n; | | |
| } | , | , | , | | |
| III. | ListNode*n; | | | | |



| Q238. while(head | =NULL){ | | | |
|---|-------------------------|-------------------------------------|--------------------------------------|-------------------------------------|
| n=head>next; dele | • • | | | |
| head=n; | | | | |
| } | | | | |
| a) I and II only | b) III only | c) II and | d III only | d) and III only |
| Q239. Find the out | put of the following p | orogram? | | |
| Main () | | | | |
| { | | | | |
| int x=20, y=35; x=y | +++x; | | | |
| cout< <x<<y;< td=""><td></td><td></td><td></td><td></td></x<<y;<> | | | | |
| } | | | | |
| a) 56, 91 | b) 55, 90 | c) 57, 94 | d) 57, 92 | |
| Q240. The number | s of swapping needed | d to sort the numbe | ers 25,23,21,22,24 ir | n ascending order using bubble sort |
| is: | DILIL | rurre IV | LUILLI | |
| a) 12 | b) 20 c) 6 | d) 13 | | |
| Q241. What is the | expected time require | ed to sea <mark>rch for a</mark> v | alue in a binary sea | rch tree containing n nodes? (You |
| should make reaso | nable assumptions al | oout th <mark>e structu</mark> re o | of the tree.) | |
| a) O(log n) | b) O(n) | c) O(1) | d) <mark>O(n log n</mark>) | |
| | | | | |
| Q242. The inorder | and preorder travers | al <mark>of a binar</mark> y tree a | r <mark>e a b c a</mark> f c e g and | dabdecfg, Respectively. The |
| - | I of the binary tree is | | | |
| a) debfgca | b) e d b g | f c a c) e d b | ofca d) d | e f b c a |
| Q243. Which one is | s not a type of a queu | e: | | |
| a) Non-liner Queue | e b) Circula | r queue | c) Deque | d) Priority Queue |
| Q244. Consider the | e following C | | | |
| declaration struct{ | short s[5] | | | |
| union{ float y; | long z; }u; } | t: | | |
| Q245. Assume the | objects of type short, | float and long occ | upy 2 byte, 4 byte a | nd 8 byte respectively. The |
| memory requireme | ent for variable t igno | ring alignment con | siderations is | |
| a) 14 byte b |) 22 byte | c) 18byte | d) 10byte | |
| Q246. In a complet | e binary tree of 'n' le | vels ,there are: | | |
| a) 2n-1leaves and | • | | b) 2 ⁿ leaves and | 2^n-1 non-leaf nodes |
| c) n^2leaves and r | n^2-1 non-leaf nodes | | d) 2^n-1leaves ar | nd 2^n non-leaf nodes |



| Q247. Which is n | ot a sorting technique: | | | | |
|---|--|----------------|--------------------------------|--------------------|--------------------------------|
| a) Merge sort | b) Radix sort | t c) Quic | k sort | d) Poll sort | |
| Q248. The way a o | card game player arrang rt b) merg | _ | e picks them selection sort | - | s an example of bubble sort |
| Q249. Which one is | s the simplest data stru | cture: | | | |
| a) Strut | b) Tree | c) Linked List | | d) Array | |
| | plate in C++ has the follo class TemplatedClass { | | | | |
| } ; | Shrip | | 1an | tri | |
| | meaning of T in the abo | | (4 | | |
| a) It must be an int | | |) It is a string | | |
| c) It is a placeholde | er for a type name | 0 | i) it is a place | holder for a poin | ter value |
| Q252. In double or | der traversal : | | | | |
| a) Every node is vis | ited once | | b) Only root | node is visited to | wice |
| c) Some node are | visited twice | d) Ev | r <mark>ery node</mark> is v | isited twice | |
| Q253. What is the | output of the followi <mark>ng</mark> | ? | | | |
| #include <iostream< td=""><td>></td><td></td><td></td><td></td><td></td></iostream<> | > | | | | |
| using namespace s | td; | | | | |
| int main () | | | | | |
| { | | | | | |
| int i; | | | | | |
| | "C++","JAVA","VBA"}; | | | | |
| char *(*ptr)[4] = & | | | | | |
| char<<++ (*ptr) [2] | ; | | | | |
| return 0; | | | | | |
| } a) Java | b) C++ | c) ava | d) co | mpile time error | |
| Ω254 In recursion | which data structure is | riseq. | | | |
| | Linked List | c) Array | ď |) Stack | |



| Q256. Which of the | following operators of | cannot be overloade | d? | | |
|-----------------------|--------------------------|-------------------------|-------------------|-----------------------------------|-----|
| a) = | b) -> | c) :: | d) == | | |
| Q257. The postfix e | quivalent of the infix | 4 \$2*3-3+8/4(1+1)is | | | |
| a) 42\$3*3-8/411+/ | + | b) 42\$3* | 3-84/11+/+ | | |
| c) 42\$33*-84/11+/- | + | d) 42\$3* | 3-84/11++/ | | |
| O 250) Stock is also | a called ac | | | | |
| Q.258) Stack is also | | - 1 | | 1) 1 1 · - 6 · - 1 · - 1 | |
| a) First in first out | b) First in last | out c) Last i | n last out | d) Last in first out | |
| | the path from the roo | ot to the node is call | | | |
| a) Ancestor node o |) Successor node | c) Internal node | d) Non | e of the above | |
| Q.260) Which of the | e following is not the t | type of queue? | Torres | · A | |
| a) Priority queue b) | Circular queue | c) Single ended qu | eue d) Ord | inary queue | |
| Q.261) A graph is a | collection of nodes, ca | alled And line se | egments called | larcs or that connect pair of | of |
| nodes. | | | | | |
| a) vertices, paths | b) vertices, ed | lges c) graph | n node, edges | d) edges, vertices | |
| Q.262) In, sea | arch start at the begin | ning of the list and o | check every ele | ement in the list. | |
| a) Binary search | b) Hash Search | / /- | | ary Tree search | |
| 0 262) In the | traversal we process | all of a vortoy's doses | andants hafar | e we move to an adjacent verte | . v |
| a) Depth Limited | - W | c) Breadth First | | | ΙΛ. |
| O 267) To manage | | | \A/la:-la ala | | |
| | | | | ata structure is suitable? | |
| a) Graph | b) Tree | c) Dequeue | d |) Priority | |
| Q.268) Which of th | e following data struc | ture is linear type? | | | |
| a) Stack | b) Graph | c) rees d) | Binary tree | | |
| Q.269) Herder nod | e is used as sentinel ir | ١ | | | |
| a) Queues | b) Stacks | c) Graphs | s d) | | |
| Binary tree | | | | | |
| Q. 270) Which of th | e following data struc | ture can't store the | nonhomogen | eous data elements? | |
| a) Arrays | b) Stacks | c) Records | _ | | |
| Q.271) A binary sea | arch tree whose left si | ubtree and right sub | tree differ in h | night by at most 1 unit is called | |



| a) Lemma tree | b) Redblack tree | c) AVL tree | d) None of the abov | ve |
|---|---|--------------------------------------|----------------------------------|------------------|
| Q.272) is a pile a) List d) Array | in which items are added a b) Queue | t one end and remo | oved from the other. | |
| • • | e following is non-linear da b) Stacks c) St | | the above | |
| Q.274) The number a) (N/2)+1 | of comparisons done by se | - | d) (N-2)/2 | |
| Q.275) is not th | ne operation that can be pe b) Insertion | rformed on queue. c) Deletion | d) Retrieval | |
| Q.276) Which is/are a) Function calls c) Evaluation of arit | | b) Large number Ai | | |
| Q.277) Which of the a) Stack | e following data structures b) Linked lists | are indexed structu c) Linear arrays | res? d) None of the above | |
| Q. 278) Which of th | e following data structu <mark>re s</mark> b) Pointers | store the homogene c) Records | eous data elements? d) Arrays | |
| Q.279) Linear arrays a) One-dimensiona | V / | l array c) | Horizontal array d) | All of the above |
| Q.280) A does a) Stack b) C | s not keep track of address (Queue c) String | | the list. | |
| • | oity of linear search algorith O(log n) c) O(n2) | m is d) O(n log n) | | |
| | xity of Binary search algorit O(log n) c) O(n2) | hm is d) O(n log n) | | |
| | xity of Bubble sort algorithr O(log n) c) O(n2) | n is d) O(n log n) | | |
| Q.284) The complex | xity of merge sort algorithm | n is | | |



| a) O(n) | b) O(log | n) c) O(n2) | d) O(n log n) | |
|------------------|--------------------|--|-------------------------------|-------------------------------|
| Q.285) | The space factor v | when determining the | efficiency of algorithm i | s measured by |
| a) , | · | imum memory neede | , , | , |
| b) | Counting the mini | mum memory needed | d by the algorithm | |
| c) | Counting the aver | age memory needed | by the algorithm | |
| d) | Counting the max | mum disk space need | led by the algorithm | |
| Q.286) | The operation of | processing each elem | ent in the list is known a | ıs |
| a) Trav | - | b) Inserting | c) Merging | d) Sorting |
| Q.287) | Binary trees with | threads are called as. | | |
| | cial trees | b) Pointer trees | | s d) None of the above |
| Q.288) a) End | A. A. | des with no successo b) Final nodes | r are called c) Last nodes | d) Terminal nodes |
| | | | | |
| | | W / | | |



| Q.289 The depth | n of a complete binar | y tree is given by | | |
|---|------------------------|--|-------------------------------|-----------------------|
| a) Dn = n log2n | b) Dn = n log2 | 2n+1 c) Dn = lo | og2n d |) Dn = log2n+1 |
| Q.290) Every node | N in a binary tree T | except the root has a | unique paren | t called the of N. |
| a) Predecessor | b) Anteceder | nts c) Precu | rsor d |) None of the above |
| - | | ll yield a sorted listing | | |
| a) Merging | b) AVL Trees | c) Binary | y trees d) Bina | ry search trees |
| Q.292) A binary tre | ee whose every node | e has either zero or tw | o children is c | alled |
| a) Extended binary | y tree b) Comp | lete binary tree | | |
| c) Binary Search tr | ee d) | Disjoint tree | | |
| O 293) The nost or | der traversal of a hin | ary tree is DEBFCA. Fi | nd out the nre | e order traversal |
| a) ABFCDE | b) ADBF | | ABDECF | d) ABDCEF |
| a) ADI CDL | D) ADDI | LC () | ADDECI | d) Abbeli |
| Q.294) Three standa) Prefix, infix, pos | V | sing a bi <mark>nary tree</mark> T wi b) Pre-pr | | cess, post-process |
| c) Pre-traversal, in | -traversal, post-trave | ersal d) F | P <mark>re-order,</mark> in-o | order, post-order |
| | | | | \\ |
| Q.295) A techniqu | e for direct search is | | | |
| a) Hashing | b) Tree Search | c) Binary Search | d) Line | ar Search |
| Q.296) If a node ha | aving two children is | deleted from a binary | tree, it is rep | laced by its |
| a) Preorder predec | cessor b) | Inorder predecessor | | |
| c) Inorder success | or d) | Preorder successor | | |
| | | | | |
| Q.297) A full binar | y tree with 2n+1 nod | es contain | | |
| a) n leaf nodes | b) n non-leaf node | es c) n-1 leaf no | des c | l) n-1 non-leaf nodes |
| Q.298) A full bina | ry tree with n leaves | contains | | |
| a) n - 1 nodes | b) log2n nodes | c) 2n – 1 nodes | d) 2n | nodes |
| Q.299) The small | est element of an ar | ray's index is called its | 5 | |
| a) extraction | b) range | c) lower bound | d) upp | er bound |



| Q.300) The data st | tructure required for | Breadth First Trav | versal on a graph is | | |
|---------------------|-------------------------|----------------------|-----------------------|-----------------------------------|-----|
| a) queue | b) stack | c) array | d) None of the | above | |
| O 201) One can co | nyarta hinary traa in | sto its mirror imag | a bu travarsing it in | | |
| • | nvert a binary tree ir | _ | _ | Nama af tha abayya | |
| a) inorder | b) preorder | c) postor | uer a) i | None of the above | |
| Q.302) The data st | ructure required to e | evaluate a postfix o | expression is | | |
| a) queue | b) stack | c) linked-list | d) All of t | he above | |
| 0 202) Which of th | o following conting n | nathada wayld ba | most suitable for se | orting a list which is almost say | r+ |
| | | | | orting a list which is almost son | tea |
| a) Insertion Sort | b) Selection Sort | c) Quick S | ort a) i | Bubble Sort | |
| O 204) The proces | es of accessing data s | torod in a social ac | coss momory is sim | ilar to manipulating data on a | |
| • | V | stack | d) None of the abo | | |
| a) heap b) | queue c) | Stack | d) None of the abo | ve | |
| O.305) The postfix | form of A*B+C/D is | | | | |
| a) ABCD+/* | b) AB*CD/+ | c) *AB/CI |)+ d) | A*BC+/D | |
| a) ADCD I | D) AD CD) ! | C) Ab/C | a, i | A Delyb | |
| Q.306) A linear co | llection of data elem | ents where the lin | ear node is given by | means of pointer is called | |
| a) linked list | b) node list | c) primitiv | | | |
| O 307) Renresent: | ation of data structu | re in memory is kn | nown as: | | |
| a) storage structui | Y A | - | ostract data type | d) None of the above | |
| a, storage stractar | b) mes | cractare c, a | osti det data type | a) None of the above | |
| Q.308) The goal of | hashing is to produc | e a search that tal | kes | | |
| a) O(1) time | b) O(n2) time | | (log n) time | d) O(n log n) time | |
| , , , | , , , | | | , (0 , | |
| Q.309) The comp | lexity of multiplying t | two matrices of or | der m*n and n*p is | | |
| a) np | | mn | d) mnp | | |
| | | | | | |
| Q.310) For an und | irected graph with n | vertices and e edg | ges, the sum of the o | degree of each vertex is equal | to |
| a) 2n | b) 2e | c) (e2+1)/2 | d) (2n-1)/2 | | |
| | | | | | |
| Q.311) Which data | structure allows del | eting data elemen | its from and insertin | g at rear? | |
| a) Stacks | b) Queues c) | Dequeues | d) Binary search tre | ee | |



| Q.312) Which | n data structure | is used in brea | dth first sea | irch of a graph to hold r | nodes? |
|------------------------|------------------------------|--------------------------------|------------------------|---|---------------------------------------|
| a) Array | b) Tree | c) Stack | d) queu | e | |
| Q.313) Ident a) | ify the data str | ucture which al | lows deletic | ons at both ends of the | list but insertion at only one end. |
| Stack b) Pri | iority aueues | | | | |
| • | stricted qequeu | e d) Input rest | ricted dequ | eue | |
| Q.314) Whic | h of the followi | ng data structu | re is non lin | ear type? | |
| a) Graph | b) Stac | ks c) Lists | 5 | d) None of the abov | e |
| | 0 | 7 0 | | 71.11 | - A |
| Q.315 respectively. | In a queue, the | initial values o | f front point | er f rare pointer r shou | ld be and |
| a) 0 and 1 | b) 0 an | d -1 c) | -1 an <mark>d 0</mark> | d) 1 and 0 | |
| | | | | | |
| Q.316) There | e is an extra ele | ment at the he | ad of the list | t called a | |
| a) Sentinel | b) Antir | nel c) List | head | d) Li <mark>st heade</mark> r | |
| Q.317) The p | roperty of bina | ry tree is | | | |
| | annot contain I | 1 | b) The fi | irst <mark>subset is</mark> called left : | subtree |
| - | d subtree is call | | d) | T <mark>he right s</mark> ubtree can b | e empty |
| | new data are ty called | o be inserted in | nto a data si | cructure, but there is no | ot available space; this situation is |
| a) overflow | b) Und | erflow c) | housefull | d) memoryfull | |
| Q.319) A data | a structure whe | re elements ca | n be added | or removed at either er | nd but not in the middle is called |
| a) stacks | b) que | ues c) deq | ueuer | d) linked lists | |
| Q.320) The u | se of pointers t b) queue | o refer element c) pointers | | structure in which elem | ents are logically adjacent is |
| Q.321) Binary | y search algorit | nm cannot be a | pplied to | | |
| a) pointer ar | ray b) sorte | ed linear array | c) | sorted binary trees | d) sorted linked list |



| Q.322) | . is the metho | d used by card so | orter? | | |
|-----------------|----------------|-------------------|-------------------|---------------|-----------------------|
| a) Quick | b) Heap | c) Insertion | d) Radi | x sort | |
| Q.323) Which | of the follow | ng conditions ch | ecks available fi | ree space in | avail list? |
| a) Avail=Top | b) Null | =Avail c) | Avail=Null | d) Avail= | -Max stack |
| Q.324) Which | of the follow | ng is not the typ | e of queue? | | |
| a) Priority que | eue b) Circula | rqueue | c) Ordinary o | queue | d) Single ended queue |
| Q.325) is | a directed tr | ee in which outd | egree of each n | ode is less t | han or equal to two. |
| a) Binary tree | b) | Dinary tree | c) Unar | y tree | d) None of the above |
| Q.326) The nu | mber of comp | parisons done by | sequential sear | ch is | tri |
| a) (N/2)-1 | b) (N+ | 1)/2 | c) (N-1)/2 | d) (N+2)/ | /2 |
| Q.327) In, | search start | at the beginning | of the list and c | heck every | element in the list. |
| | | iry search | | | d) Binary Tree search |



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Q.328 The operation that combines the element is of A and B in a single sorted list C with n=r+s

| element is called | | | | |
|-----------------------|---------------------------|-------------------------------------|------------------------------|-------------------|
| a) Sharing | b) Merging | c) Inserting | d) None | e of the above |
| | | | | |
| Q.329) Which of the | e following is an interna | al sorting? | | |
| a) 2-way Merge Sort | b) Tape Sor | t c) Merge S | Sort d) | Tree Sort |
| | | | | |
| Q.340) Which of the | following is an externa | al sorting? | | |
| a) Merge Sort | b) Tree Sor | t c) Bubble | Sort d) | Insertion Sort |
| | | | | |
| Q.341) is the te | rm used to insert an el | ement into stack? | | |
| a) Push | b) Pull c |) Pop | d) All of the | above |
| | | | | X |
| Q.342) is the | term used to delete ar | NE TERM AND A 1 NO A 2 NO A | 7 NF 70F 70F 70F 10 A | : A |
| a) Push | b) Pull c |) Pop(| d) All of the | above |
| | | 7//// | | |
| Q.343) Before inser | ting into stack one mus | st che <mark>ck the conditio</mark> | n | |
| a) Overflow | b) Underflow | c) Maximum el | ements d) | Existing elements |
| | | | | |
| Q.344) Deletion in t | the linked stack takes p | | . / | |
| a) Beginning of the | list b) End | of the list | | |
| c) Middle of the list | d |) Node pointed by t | <mark>:he s</mark> tart proc | ess. |
| | | | | |
| Q.345) The value of | REAR is increased by 1 | | | |
| a) An element is me | erged in a queue | b) An element i | s added in a | queue |
| c) An element is tra | versed in a queue d |) An element is dele | eted in a que | ne |
| | | | | |
| • | on of processing each e | | | |
| a) merging | b) traversal c |) inserting | d) sorting | |
| | | | | |
| | epresentation of binary | | | |
| a) Array with point | , - | gle linear array | | |
| c) Two dimensional | arrays d |) Three dimensional | arrays | |
| | | | | |
| • | nodes with 0 children a | | | |
| a) Outer node | b) Exterior node | c) Externa | l node | d) Outside node |
| 0.240) In | ا الله والمستعدد الله | ula Orabilalisa a a a a d | اما | |
| • | d-binary tree nodes wi | | | Lata da cara d |
| a) Inner node | b) Internal node | c) Domestic no | ue d) | Interior node |



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Q.350) The line drawn from a node N of tree T to a successor is called

| a) Route | b) Arrow | c) Edge | d) Path | | |
|-----------------|---------------------------------------|-------------------|-------------------------------------|--|------|
| | | | | | |
| Q.351 Which | of the following sor | ting algorithms | does not have a w | orst case running time of O(n2)? | |
| a) Insertion s | ort b) Qui | ck sort | c) Bubble sort | d) Merge sort | |
| Q.352) In a ci | rcular linked list | | | | |
| a) there | is no beginning and | l no end. | | | |
| b) compo | onents are arranged | l hierarchically. | 97/9 / 10 / 11 / 11 7 | ntri | |
| | rd and backward tra | | | | |
| d) compo | onents are all linked | together in so | me sequential man | ner. | |
| O 252) The an | itali, a a uk a la a vikla uz a | M | de sient de aborier | | |
| a) Overflow | uick sort algorithm e b) Backtrack | 0/ / | design techniqu | d) Divide and Conquer | |
| a) Overnow | D) Backtiack | ing c) by | iainic programming | d) Divide and Conquer | |
| Q.354) The da | ata structure require | ed to check who | ether an expression | contains balanced parenthesis is | |
| a) Stack | | Tree | d) Array | | |
| Q.355) What | data structure woul | d you mostly li | kely se <mark>e in a no</mark> nred | cursive implementation of a recursive | بِ |
| algorithm? | | V / | | | |
| a) Trees | b) Linked list | c) Stack | d) Queue | | |
| Q.356) The n | umber of leaf node | s in a complete | binary tree of dept | h d is | |
| a) 2d | b) 2d-1+1 | c) 2d+1+1 | d) 2d+1 | | |
| Q.357) The pr | re-order and post or | rder traversal o | f a Binary Tree gen | erates the same output. The tree can | have |
| a) One node | b) Two nod | es c) Thre | ee nodes d) A | ny number of nodes | |
| Q.358) A bina | ry tree of depth "d" | ' is an almost co | omplete binary tree | e if | |
| a) Each l | eaf in the tree is eitl | her at level "d" | or at level "d-1" | | |
| • | y node "n" in the tr | ee with a right | descendent at leve | I "d" all the left descendents of "n" th | nat |
| - | eaves are also at le | _ | | | |



| d) | None of | the above | | | | | |
|-----------|-------------|-----------------|--------------------------------|--------------|------------------------------------|--------------------------------|--|
| Q.359) | In a bina | ry tree a sequ | ence of conse | cutive edge | s is called | | |
| a) Path | | b) Rotat | e c) Two | -way | d) Connecting | g lines | |
| Q.360) | An adjac | ency matrix re | epresentation | of a graph o | cannot contain i | nformation of: | |
| a) node | es l | o) edges | c) parallel ed | lges | d) direction o | f edges | |
| Q.361) | is r | not the operat | tion that can b | e performe | d on queue. | | |
| a) Trav | ersal | b) Retrie | val c) | Deletion | d) Insert | tion | |
| Q.362) | A linear l | ist in which th | ie last node po | oints to the | first node is | | |
| | | SI | ırira | m | Man | triA | |
| a) singl | y linked li | V. | | | | d) none of the above | |
| - | | | 1 | 1 | he successive no ly linked list | ode is d) none of the above | |
| Q,364) | A in | dicates the er | d of the list. | | | | |
| a) Guar | rd I |) Sentinel | c) E <mark>nd </mark> | pointer | d) Last pointe | er | |
| - | | - | ointing t <mark>o the</mark> . | | | | |
| a) head | l node | b) last no | ode c) | successor | node d) | predecessor node | |
| - | Indexing | | | is not poss | ible in linked lis | | |
| a) first | | b) middle | e c) last | | d) All of | the above | |
| Q.367) | A doubly | linked list has | s pointe | ers with eac | h node. | | |
| a) 0 | | b) 1 | . c) | 2 | d) 3 | | |
| Q.368 / | A linear li | st in which ea | ch node has p | | | successors nodes is called | |
| a) singl | y linked li | st b) li | near linked lis | t c) | doubly linked li | st d) None of the above | |
| Q.369) | RLINK is | the pointer po | ointing to the | | | | |
| a) last r | node | b) h | ead node | c) succe | ssor node | d) predecessor node | |



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Q370) In a linked list, insertion can be done as.......

a)beginning b) middle c) end **d) all of the above**

Q.371 The link field of last node, in a singly link list representation is linked with

a) The data field of the first node

b) The link field of the first node

c) A null

d) The link field of the prior node

