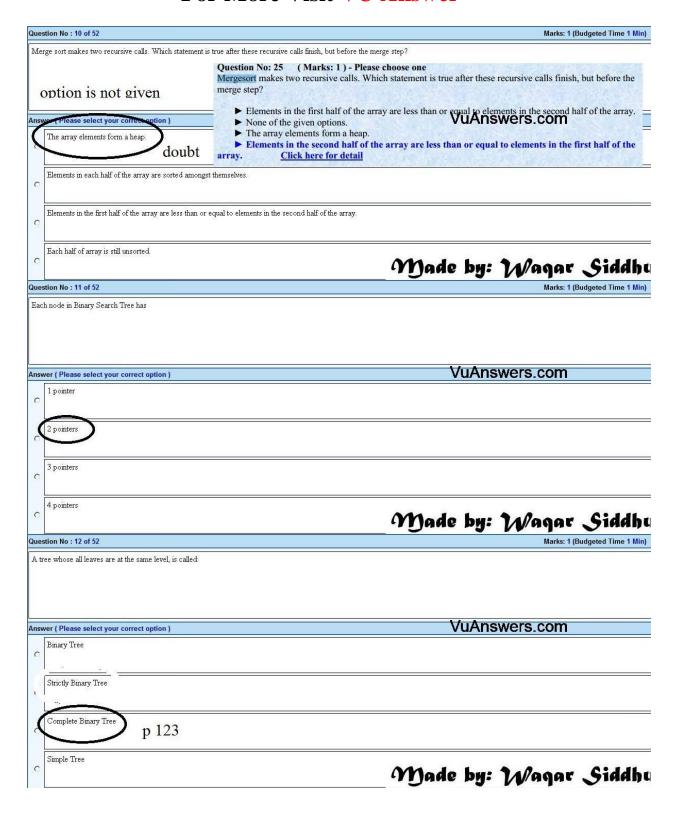
# **CS301 Final Term Papers By Waqar (File 5)**

Question No : 1 of 52	Marks: 1 (Budgeted Time 1 Min)
Here is a small function definition:	
<pre>void f(int i, int &amp;k)</pre>	
i = 1;	
k = 2;	
inswer ( Please select your correct option )	VuAnswers.com
Both x and y are still 0.	
C	
x is now 1, but y is still 0.	
C	
x is still 0, but y is now 2. ref moazz files	
x is now 1, and y is now 2.	244 1 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Made by: Waqar Siddhu
Question No : 2 of 52	Marks: 1 (Budgeted Time 1 Min)
If a complete binary tree has n number of nodes then its height will be,	
Answer (* rease select, your correct option )	VuAnswers.com
Log <sub>2</sub> (n+1) -1	
ref moazz files	
2n	
C	
T. (A) 1	
Log <sub>2</sub> (n) - 1	
2 <sup>n</sup> - 1	244 1 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Made by: Magar Siddhu
Question No : 3 of 52	Marks: 1 (Budgeted Time 1 Min)
Which of the following is NOT an implementation of Table ADT?	
Answer ( Please select your correct option )	VuAnswers.com
Sorted Sequential Array	
C	
Linked List	
C Edited List	
20 (2-20)	
Skip list	
Stack repeated	
Topcatou	Made by: Wagar Siddhu

Question No : 4 of 52	Marks: 1 (Budgeted Time 1 Min)
Consider a min heap, represented by the following array: 3,4,6,7,5	
After calling the function deleteMin(). Which of the following is the updated min heap?	
Answer ( Please select your correct option )	VuAnswers.com
c 4,6.7.5	
6,7,5,4	
(4.5,6,7) ref moazz files	
c 4,6,5,7	Made has 24/2004 Giddha
Question No : 5 of 52	Made by: Wagar Siddhu  Marks: 1 (Budgeted Time 1 Min)
Which of the following is related to De-referencing?	maixs. 1 (budgeted title 1 min)
	VuAnswers.com
Answer (Please solver) our correct option)  Accessing the data at the memory address that a pointer contains	VuAliswers.com
p 200	
Accessing a variable address using reference & operator	
Removing the data at the memory address that a pointer contain	
Removing a variable address using reference & operator	Mode bu: 14/2004 Siddha
Question No : 6 of 52	Marks: 1 (Budgeted Time 1 Min)
The memory address of the first element of an array is called	mana. ( Leasgass vinta vinta)
3	
Answer ( Please select your correct option )	VuAnswers.com
First address	10, 110,1010,0011
Base address	
Floor address	
p 28 idea	Made by: Wagar Siddhu
	- Dance 23. Mandar O manda

Ques	tion No : 7 of 52	Marks: 1 (Budgeted Time 1 Min)
Inse	rtion in a linked list can be done at	
		VIIA noworo com
Ange	er ( Please Select your correct option )	VuAnswers.com
1	p 441	
0	Back only	
	Somewhere in middle only	
C		
	Front, back and somewhere in the middle	
С		Made by: Wagar Siddhu
Ques	tion No : 8 of 52	Marks: 1 (Budgeted Time 1 Min)
The	worst case of deletion in AVL tree requires	
A	et option )	VuAnswers.com
1	Only one rotation	
0	Rotation at each non-leaf node	
0	Rotation at each leaf node	
(	Rotations equal to log <sub>2</sub> N	
655		Made by: Wagar Siddhu
Ques	tion No : 9 of 52	Marks: 1 (Budgeted Time 1 Min)
Huf	man encoding uses to develop codes of varying lengths for the letters used in the original message	
Apar	ver { Please select your correct option }	VuAnswers.com
AIISV	Linked list	V W/ 11/04/C13.00111
0		
	Stack	
С		
	Queue	
0	Karac	
1	Dinast too	
6	ref moazz files	Made by: Wagar Siddhu



Question No: 13 of 52	Marks: 1 (Budgeted Time 1 Min)
The depth of a binary tree is	
Inswer ( DI-use select your con- st option )	VuAnswers.com
Total number of nodes in the tree p 125	
Number of leaf nodes in the tree	
Number of non-leaf nodes in the tree	
Longest path from root node to farthest leaf node	Made by: Waqar Siddhu
Question No : 14 of 52	Marks: 1 (Budgeted Time 1 Min)
A. Binary tree can be traversed using	
Answer ( Please select your correct option )	VuAnswers.com
c recursion	
iteration	
both recursion and iteration	
traversal can only be done on BST rep	Made by: Waqar Siddhu
Question No : 15 of 52	Marks: 1 (Budgeted Time 1 Min)
Which one of the following is TRUE about iteration?	
Answer ( Please select your correct option )	VuAnswers.com
Iteration extensively uses stack memory.	
Threaded Binary Trees use the concept of iteration.	
Iterative function calls consumes a lot of memory.	
Recursion is more efficient than iteration ref moazz files	Made by: Waqar Siddhu

Answer (Please select your correct option )  A brancy tree of N external nodes has N+1 cutemal nodes.  A brancy tree of N external nodes has N+1 cutemal nodes.  A brancy tree of N external nodes has N+1 cutemal nodes.  A brancy tree of N external nodes has N+1 cutemal nodes.  A brancy tree of N external nodes has N+1 cutemal nodes.  A brancy tree of N external nodes has N+1 cutemal nodes.  A brancy tree of N external nodes has N+1 cutemal nodes.  Which case of the following is NOT the property of equivalence relation:  Nonewer (Please select your correct option)  VUANSWE'S. COM  Resource (Please select your correct option)  VUANSWE'S. COM  Associative  Tep  When usions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree?  36. When unions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree?  1000,000	
A binary tree of N external nodes has N+1 external nodes.  A binary tree of N external nodes has N+1 external nodes.  A binary tree of N external nodes has N+1 external nodes.  A binary tree of N external nodes has N+1 external nodes.  A binary tree of N internal nodes has N+1 external nodes.  Thought by: Wagar S  Abusation No: 17 of 52  Which one of the following is NOT the property of equivalence relation:  INDICATE OF Transitive  Associative  Tep  Thought S  Associative  Tep  Thought S  Marks: 1 (Budget  When unions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree?  36. When unions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree?  1000,000	
A binary tree of N external nodes has N+1 external nodes.  A binary tree of N external nodes has N+1 internal nodes.  P 303  A binary tree of N external nodes has N+1 internal nodes.  P 303  A binary tree of N external nodes has N+1 internal nodes.  P 304  A binary tree of N internal nodes has N+1 external nodes.  P 305  National tree of N internal nodes has N+1 external nodes.  P 306  A binary tree of N internal nodes has N+1 external nodes.  P 307  National tree of N internal nodes has N+1 external nodes.  P 308  National tree of N internal nodes has N+1 external nodes.  P 308  National tree of N internal nodes has N+1 external nodes.  P 308  National tree of N internal nodes has N+1 external nodes.  P 308  National tree of N internal nodes has N+1 external nodes.  P 308  National tree of N internal nodes has N+1 external nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  P 308  National tree of N internal nodes has N+1 internal nodes.  National tree of N internal nodes has N+1 internal nodes.  National tree of N in	
A binary tree of N internal nodes has N+1 external nodes.  A binary tree of N external nodes has N+1 external nodes.  A binary tree of N internal nodes has N+1 external nodes.  A binary tree of N internal nodes has N+1 external nodes.  A binary tree of N internal nodes has N+1 external nodes.  Which one of the following is NOT the property of equivalence relation:  Which one of the following is NOT the property of equivalence relation:  Transière  Reffesive  Transière  Transière  Transière  Transière  Transière  Transière  Transière  Associative  Transière  Transière  Associative  Transière  Transi	
Abinary tree of N external nodes has N+1 internal nodes.  Abinary tree of N external nodes has N-1 external nodes.  Which one of the following is NOT the property of equivalence relation:  Which one of the following is NOT the property of equivalence relation:  Transitive  Reflexive  Symmetric  Transitive  Transitive  Transitive  Transitive  Associative  rep  When unions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree?  36. When unions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree?  1000,000	
A binary tree of N internal nodes has N-1 external nodes.  Yinade by: Wapar S  Abustion No: 17 of 52  Which one of the following is NOT the property of equivalence relation:  Answer ( Please select your correct option )  Transitive  Tep  Yinade by: Wapar S  Associative  Tep  Yinade by: Wapar S  Associative  Tep  Yinade by: Wapar S  Associative  Tep  Associative  Tep  Yinade by: Wapar S  Associative  Tep  Yinade by: Wapar S  Associative  Tep  Associative  Tep  Yinade by: Wapar S	
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Which one of the following is NOT the property of equivalence relation:    Naswer ( Please select your correct option )	Siddh
Associative  Transitive  Associative rep  Associative rep	eted Time 1 Min
Reflexive  Symmetric  Transitive  Associative rep  Transitive  Transitive  Associative rep  Transitive  Transitiv	
Symmetric  Transitive  Transitive  Associative  rep  Marks: 1 (Budget  When unions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree?  36. When unions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree?  1000,000	
Transitive  Transitive  Transitive  Page 1  Associative rep  Marks: 1 (Budget 5)  When unions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree?  36. When unions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree?  1000,000	
Associative rep  When unions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree?  36. When unions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree?  1000,000	
westion No: 18 of 52  Marks: 1 (Budget  When unions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree?  36. When unions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree?  1000,000	
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36. When unions are done by weight (size) and N=1000,000 where N is the number of nodes then what will be the maximum levels of tree ?  1000,000	ted Time 1 Min
1000,000	
Answer ( Please select your correct option ) 100 VuAnswers.com	
1000,000 <b>20 420</b> p	
200	
C 100	
20	
200 Made by: Wagar S	2:44L

Question No : 19 of 52	Marks: 1 (Budgeted Time 1 Min)
Consider the following tree:	
14	
/ \	
2 11	
Answer ( Please select your correct option )	VuAnswers.com
c <sup>2</sup>	
4	
6	
9	Made by: Waqar Siddhu
Question No : 20 of 52	Marks: 1 (Budgeted Time 1 Min)
Consider the following tree.	
14	
/ \	
2 11	
Answer ( Please select your correct option )	VuAnswers.com
5	
C	
6	
7	
C	
8	
C	Made by: Waqar Siddhu
Question No : 21 of 52	Marks: 1 (Budgeted Time 1 Min)
The subscript of an array is used for,	
I) Negating array size	
Ⅲ)Retrieving array elements Ⅲ)Changing array name	
IV ) Multiplication of array size	
Answer ( Please select your correct option )	VuAnswers.com
C I and II Only	
II Only	
I and IV Only	
TV Only	Mada bar \$40aaaa Giddha
	Made by: Waqar Siddhu

Question No: 22 of 52	Marks: 1 (Budgeted Time 1 Min)
Compiler uses which one of the following to evaluate a mathematical equation?	
ref moazz	
Answer ( Please select your correct option )	VuAnswers.com
Binary Tree	
C	
Binary Search Tree	
0	
Parse Tree	
AVL Tree	
С	Made by: Waqar Siddhu
Question No : 23 of 52	Marks: 1 (Budgeted Time 1 Min)
Running time of $find(i)$ is proportional to the of the tree containing node $i$ .	
rep	
Appear   Disease relatively appear entire	VuAnswers.com
Answer ( Please select your correct option )  Weight	VUALISWCI 3.COITI
c	
Height	
Root	
C	
Number of links	
C	Made by: Wagar Siddhu
Question No : 24 of 52	Marks: 1 (Budgeted Time 1 Min)
In a skip list of 'n' elements, which level includes all the elements?	
	VuAnswers.com
Anguer ( Prouse select your correct option )	VuAnswers.com
1	
c '	
2	
3	
	Made by: Wagar Siddhu

Question No: 25 of 52	Marks: 1 (Budgeted Time 1 Min)
In a skip list, list ‰ holds the keys of S in which of the following order?	Control of the Contro
Answer ( Please select your correct option )	VuAnswers.com
Decreasing	14/11011010101
0	
Non-decreasing	
Non-increasing	
C	
Random	
C	Made by: Waqar Siddhu
a di Ni sa cra	
Question No : 26 of 52	Marks: 1 (Budgeted Time 1 Min)
In which of the following, there is no need to go for rotations and balancing?	
Answer ( Please select your correct option )	VuAnswers.com
Skip list	
C	
AVL tree	
С	
Unbalanced tree	
- Andrew - Andrew - I	
None of the given	
	Made by: Waqar Siddhu
Question No : 27 of 52	Marks: 1 (Budgeted Time 1 Min)
Hash function is used to convert	
Answer ( Please select your correct option )	VuAnswers.com
A hash number key to a key	V 4) (110 V C 10.50 III
C A hash humber key to a key	
A key to a hash value	
Data into table	
С	
Character data into internal data	
Character data into integer data	Made but \$40000 Ciddle
	Made by: Waqar Siddhu

Question No : 28 of 52	Marks: 1 (Budgeted Time 1 Min)
Suppose there are two key values $K1$ and $K2$ which generate a same array index "i" respectively, in this situation	
Answer ( Please select your correct option )	VuAnswers.com
K2 will store at index i	Var allowers.som
Neither k1 nor k2 will store at index i	
K1 will store at index i	
Both k1 and k2 can store at index i	Made by: Wagar Siddho
Question No : 29 of 52	Marks: 1 (Budgeted Time 1 Min)
Answer (Please select your correct section )  When data is already sorted	VuAnswers.com
When more than 50% data already sorted	
When no element is on its proper position	
When about 90% of data is already sorted	Made by: Waqar Siddho
Best case running time of insertion sort algorithm is:	Marks: 1 (Budgeted Time 1 Min)
Answer ( Please select your correct option )	VuAnswers.com
C (n)	
( (n2)	
○ (logn)	
○ (nlogn)	Made by: Waqar Siddho

Question No : 31 of 52	Marks: 1 (Budgeted Time 1 Min)
Choosing the first element in the list as pivot element during Quick sort is:	
Answer / Disease select your correct option )	VuAnswers.com
Good option	
To increase the sorting process	
Bad option	
Some how good option	Made by: Wagar Siddhu
Question No : 32 of 52	Marks: 1 (Budgeted Time 1 Min)
Which of the following is the most difficult case of deleting a node from an AVL tree?	
Answer ( Please select your correct option )	VuAnswers.com
The node to be deleted is the leaf node	
The node to be deleted has left child (subtree)	
The node to be deleted has right child (subtree)	
The node to be deleted has both the left and right children (subtree)	Made by: Wagar Siddhu
Question No : 33 of 52	Marks: 1 (Budgeted Time 1 Min)
in equivalence relations is as, if $x$ leads to $y$ and $y$ to $z$ then $x$ leads to $z$	
Answer ( Please select your correct option )	VuAnswers.com
C Equality	
Symmetry	
Non-Symmetry	
Transitivity	Made by: Wagar Siddhu

Question No : 34 of 52	Marks: 1 (Budgeted Time 1 Min)
In Disjoint Set ADT, each set contains elements to each other.	
What is Disjoint Set ADT?	
Answer ( <u>Please</u> select your correct option )	VuAnswers.com
Opposite	Val Wild World Collin
Exclusive	
C	
Inclusive	
C	
Unite	
	Made by: Waqar Siddhu
Question No : 35 of 52	Marks: 1 (Budgeted Time 1 Min)
Return value of getMin() method is always of MinHeap.	
Answer / Please select your correct option )	VuAnswers.com
Root	
Right	
C Left	
Leaf	
	Made by: Waqar Siddhu
Question No : 36 of 52	Marks: 1 (Budgeted Time 1 Min)
Which of the following is NOT a factor in <i>Union by Size?</i>	
Answer ( Please select your correct option )	VuAnswers.com
Maintains sizes (number of nodes) of all trees	
C	
Makes smaller tree, the subtree of the larger one	
Makes the larger tree, the subtree of the smaller one	
Maintains sizes (number of nodes) while performing union operation	
	Made by: Waqar Siddhu

Question No: 37 of 52	Marks: 1 (Budgeted Time 1 Min)
If there are N internal nodes in a binary tree, then number of external nodes will be:	
A CONTROL DE CONTROL D	VuAnswers.com
Answer ( Please select your correct option )  N -1	VuAlisweis.com
C N-1	
И	
C	
N+1	
N +2	
C	Made by: Wagar Siddhu
Question No : 38 of 52	Marks: 1 (Budgeted Time 1 Min)
Which of the following is NOT an example of equivalence relation?	manua - pacagona - milo - milo
The state of the s	
Answer ( Please select your correct option )	VuAnswers.com
Electrical connectivity	
Set of people	
C	
<= relation	
Set of pixels	
C	Made by: Wagar Siddhu
Question No : 39 of 52	Marks: 1 (Budgeted Time 1 Min)
In a min heap, perculateDown procedure will move smaller value and bigger value	
	VII A nouvoro som
Answer ( Please select your correct option )	VuAnswers.com
C Left, Right	
District Co.	
Right, Left	
Up, Down	
Down, Up	Mada has Astrona Ciddle
	Made by: Magar Siddhu

