## DSA Assignment No.06

2322 Page No. 1

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	Title: Threadeal Binary tree
r primary self-color for the sel	
	Aim: To implement a threaded binary tree
	problem Statement! Implement Inorder
	threaded binary tree transverse the implement
	ented tree in pre-order and inorder
	Theory:
	Limitection of Normal binary tree:
1)	Too many null pointers:
	The broamy tree node have at most two
	children, But if they have only one child
	or no children the link post in the link
	representation remains null
	n'i number of nodes
	no of non-nullink: in-1:
	total link! 2n
	nul link: 2n(n-1) = n+1
2)	Tempony douta structure (stack) is required to implement non recursive transversed algorithm
	Implement non recursive transversed algorithm
2 4	
1881	Threaded Binary tree:
J. E. Care 1	to overcome there limitation of binary tree
DOM: O	to overcome there limitation of binary tree
	The idea of TBT is to make inorder traversal
	faster and do it without stack & without
	recursion. A binary tree is made threaded by
	making all right children pointers would
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The state of the s	normally be Mull point to Inorder 3-congrer of node (if Hexist)
Com and the second	of node (IF 11 exist)
and the second s	
MANUAL STREET,	Threre one two types of TBT:
	Single Threaded: where a Mull ought pointer
A STATE OF THE PARTY OF THE PAR	Single Threaded: cohore a Mull ought pointer is made to point inorder successor.
O Company of the Comp	
2)	Double threaded: where both the left and right pointers are made to point to inorder
Name of the last o	pointers are made to point to inorder
	predecessor and inorder successor respectively
	(20)
	of software you to the total to work only
The state of the	(10) 11 (30) of a relative
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	(5)-1-11 (6)-11 to 141 x 5 4 7000 2011
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	Out of the contract of the state of
	TBT
	1.10
	Advantages of TBT over normal binary tree
• • • • • • • • • • • • • • • • • • • •	Advantages of TBT over normal binary tree  No coastege of memory for null pointors  Non-recursive transversal without stack  Node can keep record of its roots  Backword transverse is possible.
a di	Non-recursive transversal coithout stack
37	Node can keep record of its soots
16	Backword transverse is possible.

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	2322
	Page No.
	Date.
	validation:
	Duplicate numbers are not allowed
2)	only integer dute for tree creation and
	insortion
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A CONTRACTOR OF THE PROPERTY O	Panders Coast
Na.	Random input
2	Input for skewed tree concept
	The second secon
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No.	conclusion!
	The Idea of TBT is to make inorder traversa
And the second s	faster & do it conthout stack and without
And the second s	necursion
Jacob Contract of	
What I was a second to the sec	Space complexity of TBT is O(1)
And the second s	TOTOR TROUBLES IT TO LO DEN 1200
	colthout receision of stack
The second secon	
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