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WK 47 - 322-044

NOVEMBER 2016
THURSDAY

	1	2	3	4	5	6
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			
31	M	T	W	T	F	S

Dubay Hamed
18M149840

struct Node {

int data

bool color

Node *left, *right, *parent

Node(int data) {

this->data = data;

left = right = parent = NULL;

this->color = RED;

}

BSTInsert (Node *root, Node *pt)

{ if (root == NULL)

return pt;

if (pt->data < root->data) {

root->left = BSTInsert (root->left, pt);

root->left->parent = root;

else if (pt->data > root->data)

{ root->right = BSTInsert (root->right, pt);

root->right->parent = root;

}

return root;

void rotateLeft (Node * &root, Node * &pt)

{ Node *pt_right = pt->right;

pt->right = pt->right->left;

if (pt->right != null)

pt->right->parent = pt;

if (pt->parent != null)

parent->right = pt;

else if (pt == pt->parent->left)

pt->parent->left = pt->right;

pt->right->left = pt;

pt->parent = pt->right;

}

void rotateRight (Node * &root, Node * &pt)

{ Node *pt_left = pt->left;

pt->left = pt->left->right;

if (pt->left != null)

pt->left->parent = pt;

pt->parent = pt->left->parent;

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WK 47 - 324-042

NOVEMBER 2016
SATURDAY

		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			
Su	M	T	W	T	F	S

if (pt->parent == NULL)

root = pt->left;

else if (pt == pt->parent->left)

pt->parent->right = pt->left;

pt->left->right = pt;

pt->parent = pt->left;

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SUNDAY

WK 47 - 325-041