```
S M T W T F S
Fage Ne : Date / /
  else
      Node * temp = minvalue Node (root > right).
      root - key = temp - key;
      root - right = delete Node (root - right
temp-> key);
    of (root == NULL)
     return root
root -> height = 1 + mar (height (root -> left)
                   height (root > right))
    int balance = get Balance (root);
   if (balance > 1 & f get balance (voot > left)
        return right Rotate (root);
 if (balance > 1 & f get balance (root -> left) (o)
       root -> left = leftRatate (root -> left);
         return right Rotate (root);
  if Chalance <-1 && getBalance (root ->right)
         return left Rotate (root).
 of (balance & -1 & & getBalance (root-> right) 20
     return left Rotate (root > right);
      return root;
```

```
* Deletion
  Node * delete Node (Node * root, int key)
   if (root = = NULL)
        return voot.
    ef ( key < root → key)
root → left = deleterlode (root → left, key);
   else if (key > root -> key)

root -> right = delethode (root -> right, key)
    else
      if (root sleft == NULL) 11
       (root > right == NULL))

Node *temp = root > left?

root > left:
         if (temp == NULL)
     temp = root;
             root = NULL;
     else
        * roof = x temp
free(temp);
  Dair & Japan Dal Dar & Jones Inc
        - Class adalog not applica
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Rashm: Dhaded:
                                           S M T W T F S
    1BM18C5080
 Prog: 4: - Insertion & deletion of AVI tree
* Insertion
    Node * insert (Node * node, intley)
          of (node == NULL)
                 return (newNode (ney);
          : f (key < node > key
          node -> left = insert (node -> left, key);
else if (key > node -> key)
node -> right = insert (node & right, key);
           clse
             return node;
    node -> height = 1 + max (height (node -> left)
height (node -> right);
         inf (balance > 3 &4 key < node > left > left > ley)
   return right Rotate (node);
if Chalance > -1 ff key > node > tight > key)
   return left Rotate (node);
; f (balance > 1 & key > node -> left > key)
        node -> left = left Rotate (node -> left).
              return right Rotate (node);
       (balance <-1 & & key < node -> right -> key)
        node -> right = right Rotate (node -> right)
           return node;
```