Write - Up

```
* B-Tree insertion
  Pseudo-code:
       void BTra :: usest (int K)
           if ( root = = NULL)
           then do
root = hew BTreeNode (t, true),
                root > Keys[0] = K;
            શક્
              do
                 if ( root > n = = 2*t-1)
                   then do
                       BFreeNode * S = new BTreeNode (t, false)
                       5 -> C(8) - root;
                       S-1 speitchild (0, root)
                       int i = 0:
                       if (s + keys co) < K)
                       then do
                             i = i + 1
                       S -> (Ci) -> insortNonFull (K);
                       root = S;
                  else
```

~ oot -> insert Non Aul (K);

Oitango

Write - Up

Continued ..

```
void BTree Node: incert Montrell (int K)
    int i = n-1;
    if (leaf == true)
     then do
         while (i)=0 && Keys[i]>K)
           20
               Keys[i+1] = keys[i];
                1=1-1;
         Keys [11] = K;
          n= n+2;
      else
        do
            while (1>=0 && Keysti]>K)
             do 1:1-1
            if (c(i+1]→n == 2* t-1)
             then do
                  speachied (it, C(iti));
                   if ( keys [i+1] < K)
                   then do
                        i= E+1
            C [141] -> Insent Won Full (K);
```

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