```
-> Btree nacle.
  class Node ?
          int akeys;
          int t
          Node AXC;
           int n
           bod leak
            Public'
            Noole (int - t; bool - leaf);
             Void inspot NonFull(intk);
              roid Split (hold (int i , Node y);
              Void traverse();
mel Andkey(Int K).
Friend class BTree;
      3,
 class BTreef
            Mode & soot;
             mt t:
             Public .
                BTook (int -t) &
                          groot = NULL;
                          t= -t;
                     void toayorse ( ) h
                                 if ( soot ! = NULL)

root -> to averse();
               void instit ( int K);
          3.
```

```
1) invoiting an element.
 Yord BTree: insort (int K) ?
                    if ( soot == NULL) ?
                         200t = new Node (t, tsue);
                          2004 -> KgySTO] = K;
                          yout -> n = 1;
                       3 else f
                             ib( rocol -> n = = 2 + t-1) {.
                                   Node . * S = new Mode (t, false);
                                     S-> c[0] = voot;
                                     S-> split ( hold (0, xoot);
                                      int : 1 = 0.
                                         1] (S->1/cys[0].<K)
                                        S-> CETJ -> Insort NotFull(2)
                                          noot=5:
                        yelse soot -> Insert NonFull (L).
                         4
```

```
Void BTree o'. Splitchild (int i, Basse Neele *y) &
           TOTAL Mode AZ = new Basane Noole (4->t, y-> leaf);
                  Z->n =+-1;
                  for (int j=0 jj<+-1;j++)
                           Z-> Keys[j]: y-> Keys[j+ +];
                    1) ( y -> leaf -- false.) P.
                           - fox ( int i = 0 ; i < t '. i ++ ).
                                 Z->C[]=y->[[i+1];
                       y->n=t-1;
                        for (int j = n; j'>= [+1; j--).
                               C [iti] = C[i];
                        C[i+1] = Z:
                         for (int.j=n=1 ; j==1 ; j =-)
                                  Kays[i+1] = Kays[i];
                         Kys [i] = y -> Kys [t-1];
                         nonti;
            4
       · BTsee ; insert Non Full ( int E) &
 Void
                  int i=n-i;
                  16 ( leaf = = true ) 2
                           while (i>= D. 22 Kysti] >K) &
                     Kuy [iri]: Kay [i];
```

Keys [i+1] = K; n= n+1;3 else C while (1 >= 0 22 Keys[i] 7[) i -- ; if [C[i+1] -> n == 2+t-1){ Split child (it); cci+1]); if (Keyk ·[i+1] <K) ([iti] > most Non Full (K);