```
class B7rceNode
      int * keys;
       int tin, leaf;
    public:
       BTree Node (int_t, book_ leaf);
       void insert Non Full (int k);
       roid splitchild (int 1, Birec Node *y);
        void traversell,
       BTreeNode *search(int k);
     friend class Bree,
 class BTree
       BTree Node * 9;
       int t;
     public:
        BTree(int_t)
         6 Soot = NULL; t = +; y
         void traversely
            if ( soot != NUIL) MOOL - tlaversel); y
         roid insert (int t);
 y.,
BTree Node :: BTree Mode (int tr. book leaft)
 L
           t - ti;
          leaf : leaf 1;
          keys = new int[2*t=1].
           C = New BFreeNode * 2[2*t];
           n=0;
void Biree Node :: traverse)
       int i;
```

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```
for(i=0, icn;it+)
          y (leaf = -false)
                clil-traverse();
                    "≪ keyshi);
      4 (leaf == false)
            c(i) - (raversel);
 Biree Node * Biree Node :: scarch(int k)
         int i=0;
         whilelian * k > keys[1])
                itt;
         if ( keys[i] == k)
                seven this;
         of (leaf == true) letur NVII;
         Return c[i] - search(t);
 y
     Birel: insert (int k)
Void
     of (1 most)
            root: new BTreeplode (t, true);
            not → keys sol=k;
            200t → n=1;
     else h
        $ ( root - n == 2+t-1)
                BirreeMode *s = new BirreeMode (t, false);
         L
                s - c[0] = hoot;
                s - splitchild (0, not);
               int 1=0;
               of (s-keyslo) <k) i+;
               S-c[i] - insutNonFull(1).
              , 2 = 10 cm
            Most - rensent Mon Full (1)
```

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```
Biree Node : insest Nonfull (int 7)
         int i- n-1;
         H ( leaf)
              while (iz=0 92 Keys[i] >t)
                L keyssiti] = keyslili i--; y
               Keyslifil-k;
               n= n+1,
                philelizorx keyslidzes
         else h
                    i--; y
                   split Child (iti, diti);
                   4 ( keysliti) < b) iti
                  clitil - insert Non Full(r);
           4
      BreeNode: splitchild (int i, BirceNode xy)
roid
L
       Bloce Mode *z = now Broce Node (y >t, y -leaf);
        Z- n = t-1;
        for ( j=0, j< +1; j+1)
               z-keyssij=y-keyssij++j;
        y-n=+-1;
        for ( j=n :, j = i+1; j--)
            a(j+1) = c(j),
        c(i+1)=2;
        n = nt1;
      main()
      BTree +(3);
      tinsut (10)
       t. traverse().
```

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