Class Tree.

Rubbec:

Put n:

Z

else

clse noot = insect Non Full [h];

```
void Tree Node 11 queut (Non full (mant in))
& gut 8=n-1;
   1+ (leaf {= = 1-me)
    à muile (120 88 keys[97>k).
       key [9+1] = key [97;
      Key[1+1]=K;
     とりまれより;
    clse
   nelle (920 8 & keys [9]>k)
      1f (child [1++] -> n == 3)
        Splitanied (9+1), child [9+1]).
          of (key s[1+1] < k)
       chi bol [9+1] -> Insert Nonfull (m); 43
    Nord TreeNale: ! splitchild (int e, Tree Node * y).
      Tree Noble = new Tree Noble (y > leay);
       Z > KuycTo]=y > Kuy: [z];
         Ef (y > leaf == false)
             ·for (int g=0; 12; 1++)
                   z -> child [] = y -> drild[]+2];
             り→ハ=1;
          for (Int J-n; y>=1+1;j-)
              child [j+i] = child[j];
           Child [1+]]=2;
            for (Pntj'=n-1; J>=(3,5-)
              Keys []+1]= Keys []

Key[9]= y-> keys[]

n=n+1;
```

```
void Free Node: remove (Int h).
& Int edr = findky(L)
   if (idx <n && key : (idx) == h)
      "I (leaf)
          remove from leaf (idx);
           remore From Nonlaf (9dx);
       Clse
      å
Pf (leaf)
        contez by doesn't exist 1 < condl;
       bool flag = ((idx = -n)? true: false);
     ef (child Fidx) -> n < 2)
           frucedx);
      if (flag 22 lolx>n)
         child [Pdx-1] -> remove(k);
       else
child[idx] -> remove(h);
      q reham,
   void Tree Node!) remove from heaf (Intidx)
      for (9nt 9 = 8dx; 8 < n; # 4)

key[7-1] = ky[i].
         rehim;
  void Tree Node:: remove for noventeaf (aut ida)
   l int k = kys [idx];
```

```
of (child Frdx] ->n>=2).
à int pred = get Pred (Talx)
    Keys [Pdx] = pred.;
    celi lol [9dx7 => remove (pred); }
   else if (child (idx+i) ->n>=2).
 d pre- suce = getime (edx);
    key & [ roke ] = succ;
     child [idx+1] -> remove (med);
   else
      inye (ids);
   y dield [idx] - remove (in);
   rehom?
 void free: : rumore Cintk)
   if (! 200 t)
   cont << " Tree is couply " < end;
     ronan;
     Yook -> remove (1);
     if (noot->n==0)
    & Tree Node . *temp = 200t;
       (+ (2001 -> leat)
           SOOF = NULL'
          noot- noot - dild[o];
        delete trup;
     g
dchorn;
```