```
proc delete (parentpointer, nodepointer, entry, oldchildentry)
// Deletes entry from subtree with root '*nodepointer'; degree is d;
// 'oldchildentry' null initially, and null upon return unless child deleted
if *nodepointer is a non-leaf node, say N,
    find i such that K_i ≤ entry's key value < K_{i+1};          // choose subtree
    delete(nodepointer, P_i, entry, oldchildentry);              // recursive delete
    if oldchildentry is null, return;                  // usual case: child not deleted
    else,                                  // we discarded child node (see discussion)
        remove *oldchildentry from N,       // next, check minimum occupancy
        if N has entries to spare,                                        // usual case
            set oldchildentry to null, return;          // delete doesn't go further
        else,                              // note difference wrt merging of leaf pages!
            get a sibling S of N:                // parentpointer arg used to find S
            if S has extra entries,
                redistribute evenly between N and S through parent;
                set oldchildentry to null, return;
            else, merge N and S                                  // call node on rhs M
                oldchildentry = & (current entry in parent for M);
                pull splitting key from parent down into node on left;
                move all entries from M to node on left;
                discard empty node M, return;

if *nodepointer is a leaf node, say L,
    if L has entries to spare,                                            // usual case
        remove entry, set oldchildentry to null, and return;
    else,                                  // once in a while, the leaf becomes underfull
        get a sibling S of L;                          // parentpointer used to find S
        if S has extra entries,
            redistribute evenly between L and S;
            find entry in parent for node on right;                    // call it M
            replace key value in parent entry by new low-key value in M;
            set oldchildentry to null, return;
        else, merge L and S                                  // call node on rhs M
            oldchildentry = & (current entry in parent for M);
            move all entries from M to node on left;
            discard empty node M, adjust sibling pointers, return;
endproc
```

Figure 9.16 Algorithm for Deletion from B+ Tree of Order d