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procedure delete(value K, pointer P)
    find the leaf node L that contains (K, P)
    delete_entry(L, K, P)

procedure delete_entry(node N, value K, pointer P)
    delete (K, P) from N
    if (N is the root and N has only one remaining child)
    then make the child of N the new root of the tree and delete N
    else if (N has too few values/pointers) then begin
        Let N' be the previous or next child of parent(N)
        Let K' be the value between pointers N and N' in parent(N)
        if (entries in N and N' can fit in a single node)
            then begin /* Coalesce nodes */
                if (N is a predecessor of N') then swap_variables(N, N')
                if (N is not a leaf)
                    then append K' and all pointers and values in N to N'
                    else append all (Ki, Pi) pairs in N to N'; set N'.Pn = N.Pn
                delete_entry(parent(N), K', N); delete node N
            end
        else begin /* Redistribution: borrow an entry from N' */
            if (N' is a predecessor of N) then begin
                if (N is a nonleaf node) then begin
                    let m be such that N'.Pm is the last pointer in N'
                    remove (N'.Km-1, N'.Pm) from N'
                    insert (N'.Pm, K') as the first pointer and value in N,
                        by shifting other pointers and values right
                    replace K' in parent(N) by N'.Km-1
                end
            else begin
                let m be such that (N'.Pm, N'.Km) is the last pointer/value
                    pair in N'
                remove (N'.Pm, N'.Km) from N'
                insert (N'.Pm, N'.Km) as the first pointer and value in N,
                    by shifting other pointers and values right
                replace K' in parent(N) by N'.Km
            end
        end
        else ... symmetric to the then case ...
    end
end

```

Figure 14.21 Deletion of entry from a B⁺-tree.