

```

let rec update : '(k',v) res prompt ->'
  k -> '(v'->v) -> '(k',v) tree -> '(k',v) tree =
  fun pnf k f ->
    let rec loop = function
      | Empty ->
        Node(
          Empty,
          k,
          take_subcont pnf (fun c () -> ReqNF (k,c)),
          Empty
        )
      | Node (l,k1,v1,r) ->
        begin
          match compare k k1 with
          | 0 -> Node(l,k1,f v1,r)
          | n when n < 0 -> Node(loop l,k1,v1,r)
          | _ -> Node(l,k1,v1,loop r)
        end
    in loop

```