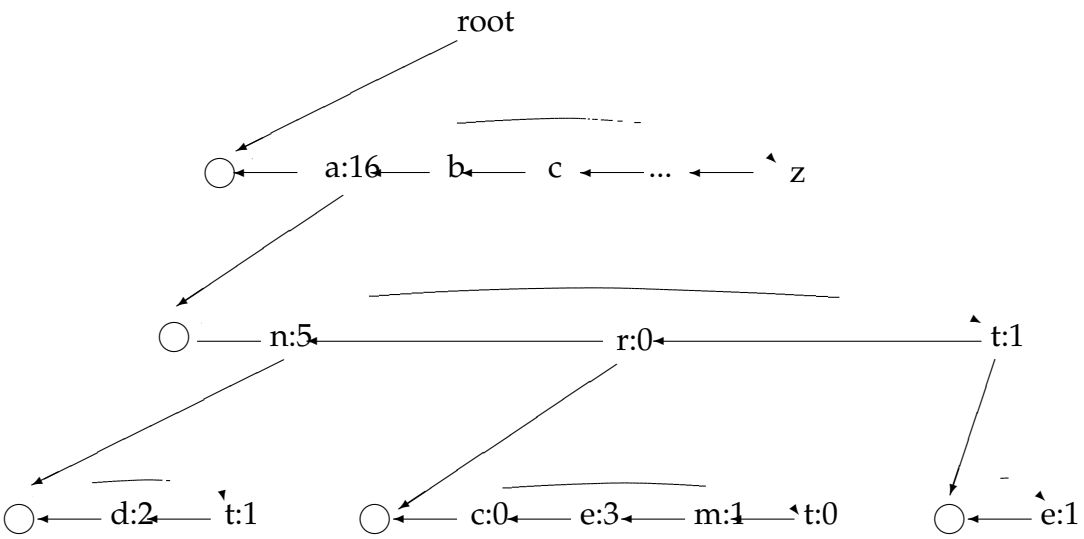

Figure 3: Example Trie with Rings ~~PPPPPPPPPPPPPPPP TBD~~

becomes `h`. See Figure 3. The parent of `h` is `u`. The node `h` of course has no children, and there is no meaning yet for either `hic(h)`, or `ltr(h)`. We define `hic(h)` as `u`, and `ltr(h) = dot`. Thus, for all cellids `x`, other than the `rootid`, either `hic(hic(x)) = x` or `hic(x) = nilid`.

```
type ringed-trie := trie except (
  function childrenq(u: cids) :=
    value q: seq cids such that
    if (
       hic(u) = nilid => q = [];
       else => (
          q[1] = hic(u),
          ltr(q[1]) = hdr,
          hic(q[1]) = u,
          nxt(q[1]) = q[#],
          for i: 1..#-1 (
            q[i] = nxt(q[i+1]),
    ) ) )
)
```