ALGORITHM 1: *calCodeOverlay*(G, $PASS$, <V,R>, <V,S>)

```
1: code_overlay ← 0
2: for r ∈ R do
3:    /* s_last is the last segment that is loaded to region r following PASS */
4:    Initialize mem_state[r] ← s_last
5: end for
6: for i ∈ [0, |PASS| − 1] do
7:    s_cur ← getSegment(<V,S>, i)
8:    r_cur ← getRegion(<V,R>, i)
9:    if s_cur ≠ mem_state[r_cur] then
10:      code_overlay ← code_overlay + T_c(C_{s_cur})
11:      mem_state[r_cur] ← s_cur
12:   end if
13: end for
14: return code_overlay
```