ALGORITHM 3: Region Assignment (G. PASS, code_mem) 1: Initialize actor to region assignments $\langle V,R \rangle$, as each actor occupies a separate region 2: Construct IF table entry for each region pair $\langle (r_i, r_i), Integer \rangle$, where $r_i, r_i \in R, i < j$ 3: $region_mem \leftarrow \sum_{r \in P} C_r$

4: **while** $region_mem > code_mem$ and |R| > 1 **do** Collapse a region pair with minimum IF 6:

Update $\langle V, R \rangle$ and IF table

 $region_mem \leftarrow \sum_{r \in P} C_r$

8: end while

9: **return** <*V*,*R*>