

Input: Parameter at *index* of function call *code* in function *func* at WyIL level

Output: Temporary variable *name*

1: **Variables**

map: Global Hash map stores the name of a temporary variable at *index* of *code* in *func*

2: **end Variables**

3: // Get the name of temporary variables used in *code* and *func*

4: **procedure** VARSTORE(*index*, *code*, *func*)

5: *name* \leftarrow *map.lookup*(*index*, *code*, *func*)

6: **if** *name* == NULL **then** // Make a new variable *name*

7: *fparam* = name of formal parameter at position *index* in called

 function of *code*

8: *name* = "tmp_" + *fparam*

9: *suffix* = 0

10: **while** *name* is used in *func* **do**

11: *name* = "tmp_" + *fparam* + "_" + *suffix* // Append suffix

12: *suffix*++

13: **end while**

14: // Include *name* to *map*

15: *map.add*((*index*, *code*, *func*) \mapsto *name*)

16: **end if**

17: **return** *name*

18: **end procedure**