Algorithm 1 Add Equation. An observed equation is added to the learned model as a new node or as a merged node, based on the closeness that it has among all involved nodes.
Input: similarity threshold *sim_th*

```
1: procedure ADD_EQUATION(directSuccessorsDistances, equation)
2:     closestNode ← getClosestDistanceAboveThreshold(directSuccessorsDistances, sim_th)
3:     farNode ← getClosestDistanceBelowThreshold(directSuccessorsDistances, sim_th)
4:     if closestNode.isNotEmpty() then
5:         bestChange ← evaluateMerge(closestNode, equation)
6:         if bestChange == addition then
7:             return addNodeToLearnedModel(closestNode,equation)
8:         else
9:             return updateNode(closestNode,bestChange)
10:        end if
11:    end if
12:    if farNode.isNotEmpty() then
13:        if farNode.exists(equation) then
14:            return increaseWeight(farNode)
15:        else
16:            return addNodeToLearnedModel(farNode, equation)
17:        end if
18:    end if
19: end procedure
```