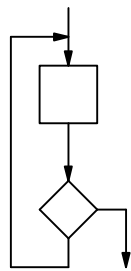


NOT-SO-GOOD LOOP-DISPLAY SCHEME IN FLOWCHART

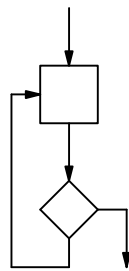
Problems with the modified scheme #1:

- ? Multiple entry point.
- ? What happens if box "1" is itself a do-while loop?

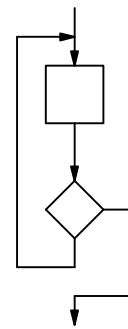
How about the case if it is a while-do loop?



Original:

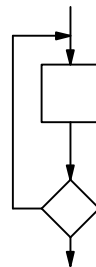


Modified #1



Modified #2

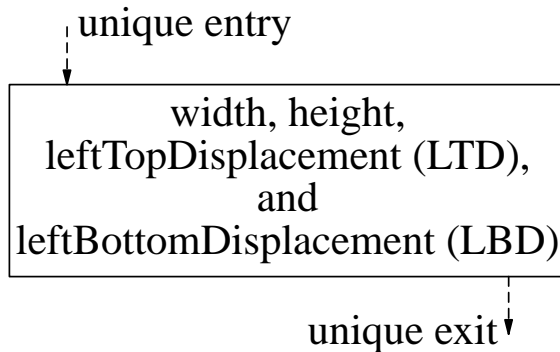
Improved Solution:



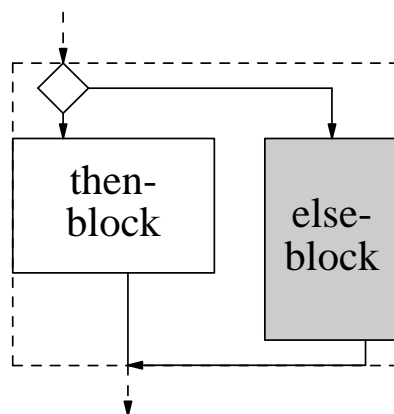
- Moving the loop-back line to the right may not give much improvement.

BASIC DISPLAY-MODEL OF A BLOCK

Models of Simple Action-Node and Branch-node:



- Structure of a general block-node.
- For a simple action-node, LTD = LBD.



- Structure of a branch-node

Question:

- ? Is " $\text{topLeftDisplacement} \leq \text{bottomLeftDisplacement}$ " always true in this model? Does the equality hold in the improved scheme when we have do-while loops?
- ? How will you decide if a vertical line segment will have an arrow or not at the end of it? (Hint: look at the sample flowchart-drawings in the notes.)
- ? For the tree-display scheme with all terminal nodes on the same horizontal line, we can associate with each subtree a box with an entry-point and these boxes are nested corresponding to parent-child relation of nodes. What is a good geometric structure that can replace the box for the other tree-display scheme?

