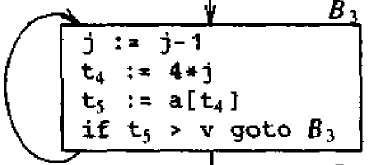
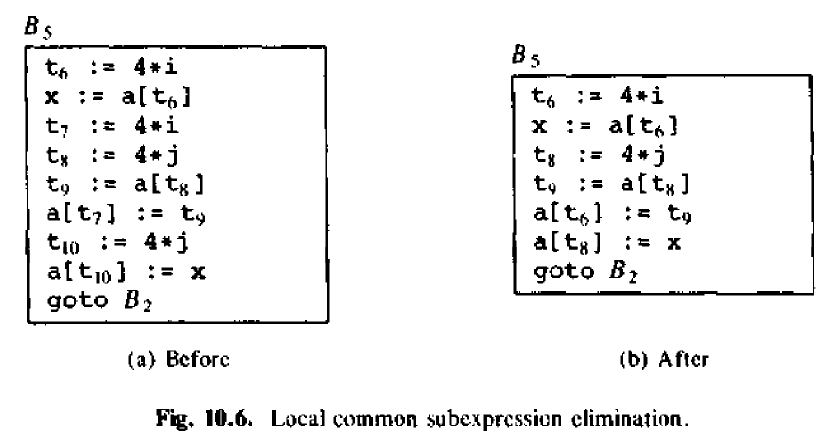


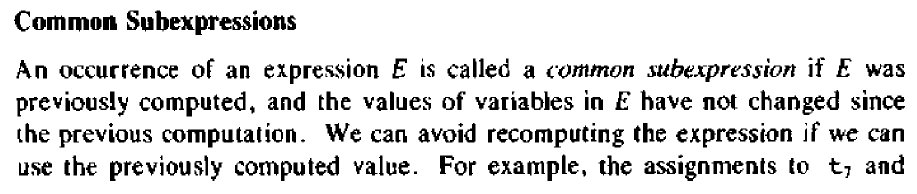
Code optimization:

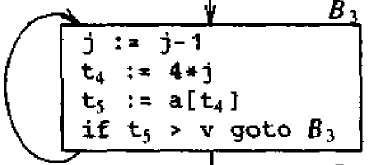
1. Local common sub expression elimination

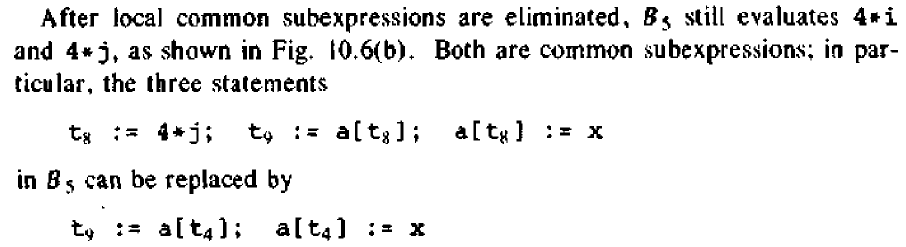
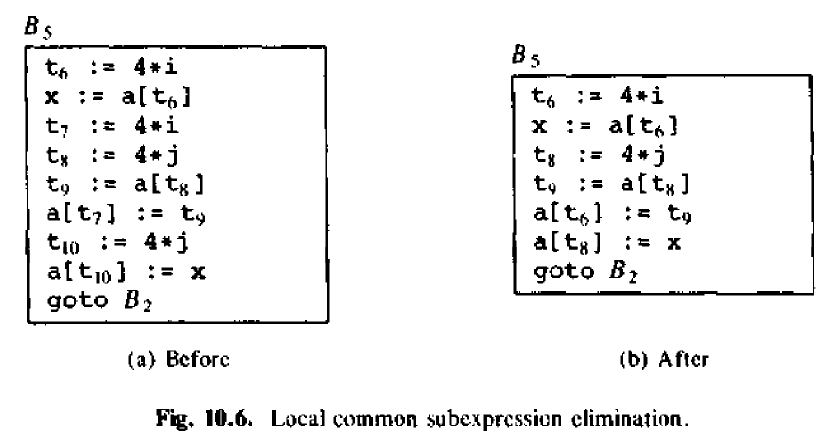




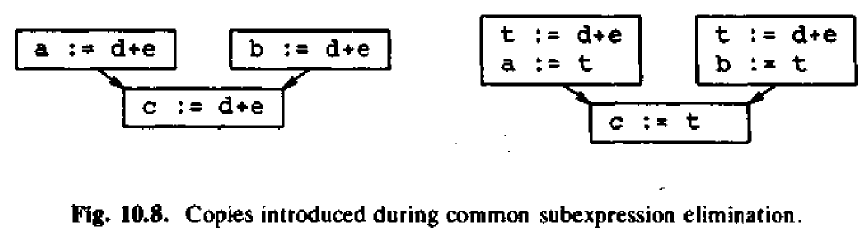
2. Global Common subexpressions elimination





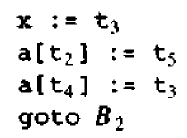


3. Copy Propagation



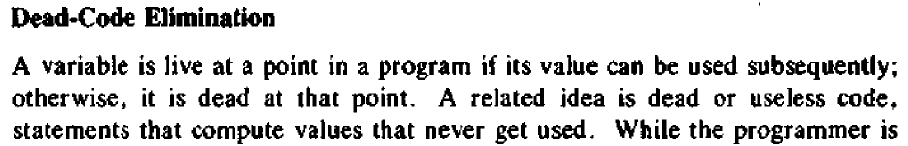
Assignment of same expression repeats in multiple blocks to multiple variables.

In block 5

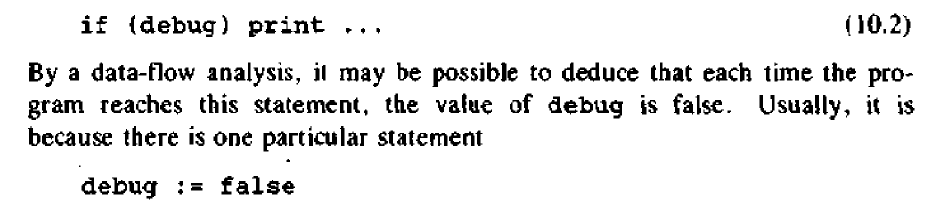


Simply remove assignment to x.

4. Dead code elimination

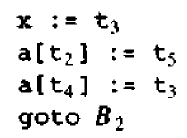


Example 1:

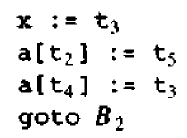


Example 2:

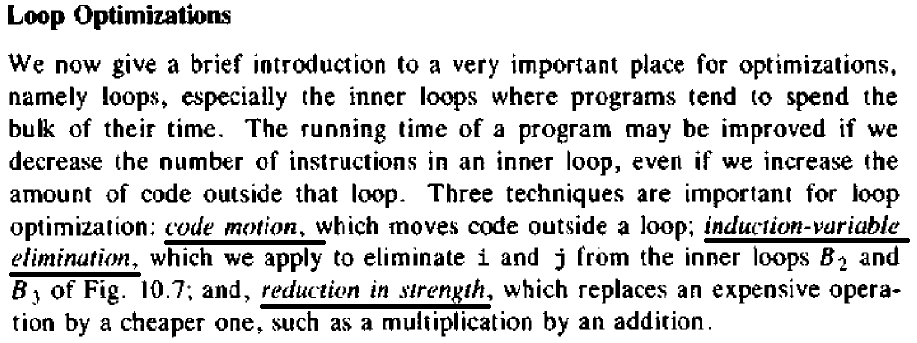
Block 5 is



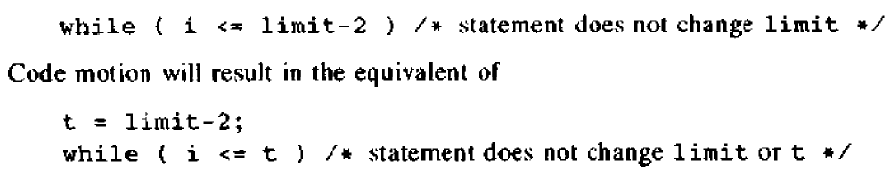
If x is not used to other following blocks, it could be minimized as



5. Loop Optimization



5.1 Code Motion



5.2