

Chapter 8: Code Optimization

1. What is optimization? Write characteristics of peephole optimization.
2. Explain the concept of copy propagation
3. Explain sources of optimization in detail
4. Write a short note on flow graphs
5. Explain peephole optimization technique
6. What is organization of optimization? Explain different semantic-preserving transformations with example.
7. Explain function preserving transformation and algebraic transformation on basic block.
8. Write a note on loop optimization
9. Explain code motion and strength reduction
10. Short Note on Data flow analysis
11. Short note on common sub expression elimination with example