

```
[ Outer Iteration (maximum iterations defined by it_max_bga)
  [ Inner Iteration (maximum iterations defined by it_max_phi)
    end Inner Iteration
    If linesearch == 1
      [ Linesearch (maximum iterations defined by it_max_linesearch)
        end linesearch
      If struct_par_opt == 1
        [ Structural Parameter Optimization
          (maximum iterations defined by it_max_structural)
        [ end Structural Parameter Optimization
      ]
    ]
  ]
end Outer Iteration

If posterior_cov_flag == 1
  Calculate posterior covariance
```