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┌ Outer Iteration (maximum iterations defined by it_max_bga)
├   ┌ Inner Iteration (maximum iterations defined by it_max_phi)
├   │   If linesearch == 1
├   │   │   ┌ Linesearch (maximum iterations defined by it_max_linesearch)
├   │   │   │   end linesearch
├   │   │   └ end Inner Iteration
├   │   If struct_par_opt == 1
├   │   │   ┌ Structural Parameter Optimization
├   │   │   │   (maximum iterations defined by it_max_structural)
├   │   │   │   └ end Structural Parameter Optimization
├   │   Else, only perform 1 Outer Iteration
├   └ end Outer Iteration
└ If posterior_cov_flag == 1
    Calculate posterior covariance

```