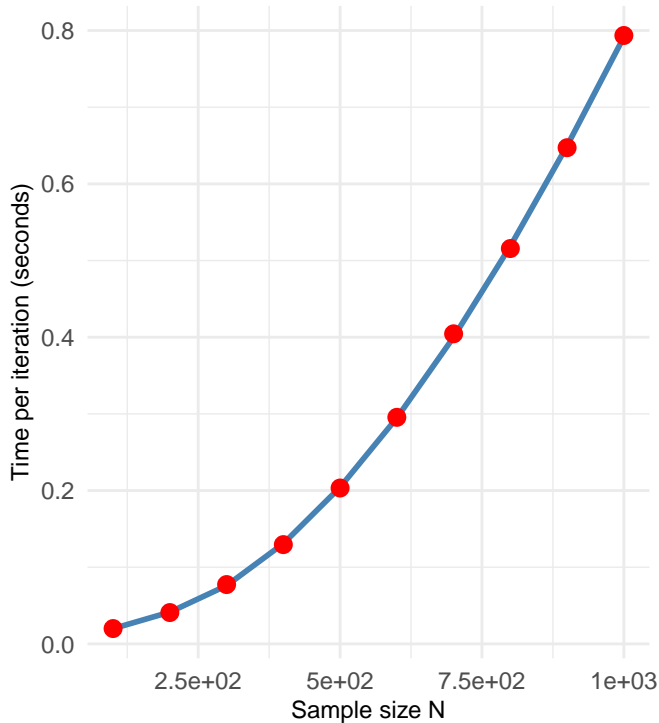


(a) Dependency on $N \sim O(N \cdot \log(N))$



(b) Dependency on $d \sim O(d \cdot \log(d) \cdot \log(\log(d)))$

