sampleVR: reuseVR: $ho_{s+1}^2 = \epsilon/s, k = -\frac{\log \frac{\alpha}{2}}{\rho_{s+1}^2}; \quad \nabla \dot{F} = \frac{1}{m} \sum_{t=1}^m \nabla f_{i_t}(\omega_{i_t}^s);$ return $\frac{1}{k} \sum_{t=1}^{s} \nabla f_{i_t}(\omega_{i_m}^s)$; return $\nabla \dot{F}$;