$$U_{N+1} = U_{N} - \frac{sv}{k} \left( \frac{1}{k} (u_{N}^{(1)}) - \frac{1}{k} (u_{N}^{(1)})$$

This method is conservative because it finds the solution of the next time step, (UN+1), using the solution from the previous step, (UN) comband with the difference of the numerical flux terms around the point [F:R-Fil].