1. initialization
$$\phi^{(0)}(x)\equiv 0,\, k_{eff}^{(0)}=1,\, n=1$$

2. fission source update
$$s^{(n-1)}(x) = \frac{1}{k_{eff}^{(n-1)}} \nu \Sigma_f(x) \phi^{(n-1)}(x)$$

3. solve
$$-\frac{d}{dx}(D(x)\frac{d}{dx}\phi^{(n)}(x)) + \Sigma_r(x)\phi^{(n)}(x) = s^{(n-1)}(x)$$

4. critical eigenvalue update
$$k_{eff}^{(n)} = \int_{\Omega} \nu \Sigma_f(x) \phi^{(n)}(x) \, \mathrm{d}x$$

5. IF
$$\left| \frac{k_{eff}^{(n)} - k_{eff}^{(n-1)}}{k_{eff}^{(n)}} \right| > \text{tol}$$
THEN
$$n = n + 1, \text{ continue to } 2,$$
ELSE END