1. Set constants, geometry and control parameters
2. Get energy
3. Set random neutron location inside the cavity
4. Set initial velocity manually because, as design, velocity depends not on energy
5. Get location and velocity components
6. Calculate the time required for the neutron to get to the inner boundary
7. Update location components. Energy and velocity components remain unchanged. The neutron is now at the boundary
8. Calculate time to upcoming interaction
9. Update location. The neutron undergoes interaction
10. Update energy and velocity components based on current energy/type of interaction
11. Terminate current neutron history if it gets captured or escapes. Move on to the next neutron. Go to 4.
12. If the neutron didn’t get captured and escaped, go to 7.