S8 Appendix: Flowcharts of Simulation

S8.1 Fig: Global schematic of the simulation.
S8.2 Fig: Schematic of testing individuals.
(a) Schematic of targeted and random testing.

(b) Schematic of performing a test.

**S8.3 Fig:** Schematic of testing procedures.
S8.4 Fig: Schematic of declaring results.

1. Declare results
2. Agent is eligible?
3. Location quarantined?
   - YES: Remove location quarantine
   - NO:
     1. Test Result
        - Positive and person not hospitalised
        1.1. Isolate if `isolate_confined == True`
        1.2. Move them home
        1.3. Quarantine location if `lock_homes==True`
        1.4. Decide if agent is eligible for targetted or random testing
        - YES: Any agents remaining?
        - NO: Declaring complete
        - Negative or person is hospitalised
        1.5. Remove isolation

3. NO: Declaring complete