Virus Simulator

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Run the simulation and the SimulationDriver will guide you to enter the values of the following parameters:

- Width & Length of grid
- Number of people in the room

Then it will ask if you want to set unique parameters or use the default ones for (default values in parenthesis):

- Duration of the simulation (500)
- Number of initially infected people (1)
- How infectious the virus is (60%)
- How fatal the virus is (4%)
- Number of people that take protective measures (50%)
- Time to recover people and disinfect rooms (50)
- How likely are people to move (70%)

Note that:

- It's half as likely for a room to get infected than a human.
- It's half as likely for a human to get infected from being in an infected room than human to human transition.
- Protective measures make chances of getting infected 1/9 of normal.
- Diseased people are removed from the grid.
- People can also move diagonally

Console Output:

```
OF THE 20 INITIAL PEOPLE:
3 : GOT INFECTED
2 : RECOVERED
0 : PASSED AWAY
17 : NEVER GOT INFECTED
```

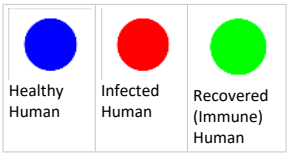
Limitations:

- Can't have more people than spaces on the grid
- Can't have more infected people than people in general
- Can't have more people that take measures than initially healthy people
- People can't move outside the gird

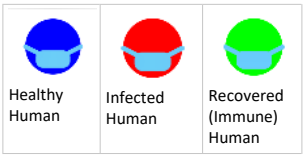
Graphics:

Humans:

Without protective measures:



With protective measures:



Rooms: