Project 2 - Self-avoiding walks of len n say we have a new grid and as origin point p the number of wells the number of welks of length 1 is 4 The number of walts of length 2 is 16 The number of walks of leigth n is you Let's put some restrictions on these walks. Say pis the drigin (0,0). Any walk containing a point > x=1 or <x=-1 is a failure Any walk containing at least 2 of the same points fails All other walks succeed. Create a DFA where each state is a walk (a Set of points, in order).

If the walk contains >> 1 or xz-1, ignore it

If the walk contains 2 of the same, ignore it otherwise count the walk. Then, take that count & apply it to the next iteration. This way, we keep a 1/37 of valid malks of length in and use it to determine the list of valid walks of length nel.