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Part1
Ass2HelpCode
Part3
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Part 1
The electric filed in the x direction is 500000 V/m
8e-14 N on each electron
The faster the average carrier velocity the higer current density
The formula for current is I = J/concentration
Where J = q*vd*concentration/n q = 1.6e-19 C/n vd is drift velocity
Part 2
Part 3
b) the particles are trying to get as far away as possible from eachother
c) find a way to have the position calculated from acceleration in one step rather than multiple
or make the time steps even smaller

V(x,y)

2-D electric field

Particle movement

Density