Part (a)

public boolean simulate()

{

int sum = 0;

for (int i = 0; i < maxHops; i++)

{

sum += ~~this.~~hopDistance();

if(sum < 0)

return false;

if (sum >= goalDistance)

return true;

}

return false;

}

Part (b)

public double runSimulations(int num)

{

int success = 0;

for (int i = 0; i < num; i++)

{

if(~~this.~~simulate() == true)

{

success++;

}

}

return (double) success / num;

}