
%Created by Shane Cincotta 9/5/19

clear

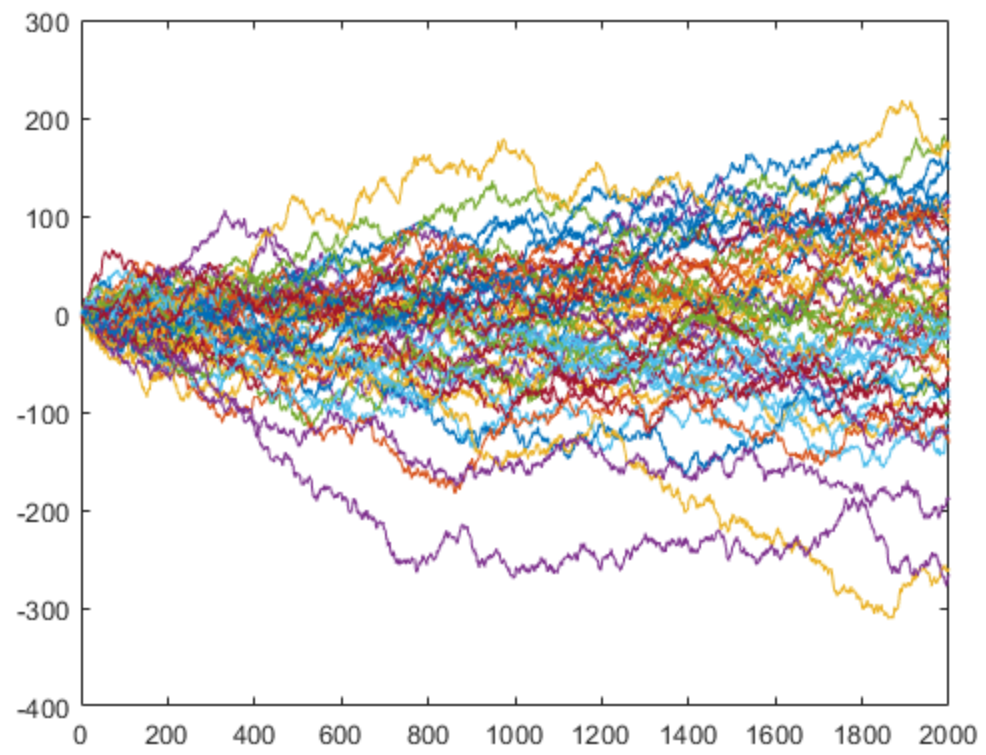
```
for i=1:50
    r = randn(10000,1);
    x = cumsum(sign(r));
    plot(x(1:5:end)), hold on
end
```

```
xn = zeros(1,1000000);
xn_abs=xn;
```

```
for i=1:1000000
    r = randn(10000,1);
    x = cumsum(sign(r));
    xn(i)=x(end);
    xn_abs(i)=abs(x(end));
end
```

```
fprintf('average of x(10000): %f\n',mean(xn))
fprintf('average of |x(10000)|: %f\n',mean(xn_abs))
fprintf('Bn: %f\n',sqrt(2*10000/pi))
fprintf('an=0\n')
```

```
average of x(10000): 0.014482
average of |x(10000)|: 79.694054
Bn: 79.788456
an=0
```



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