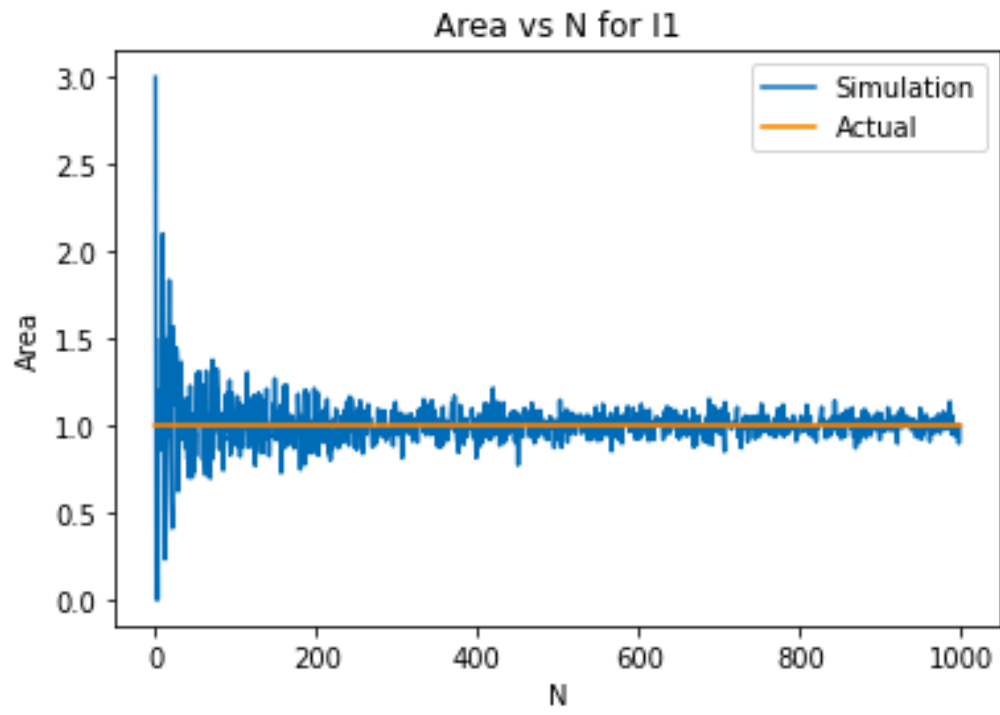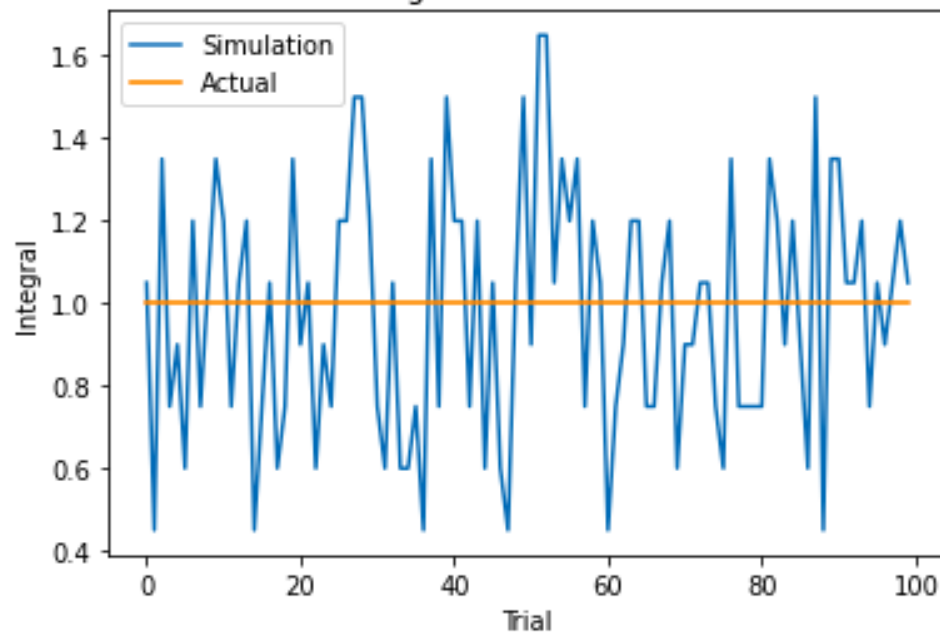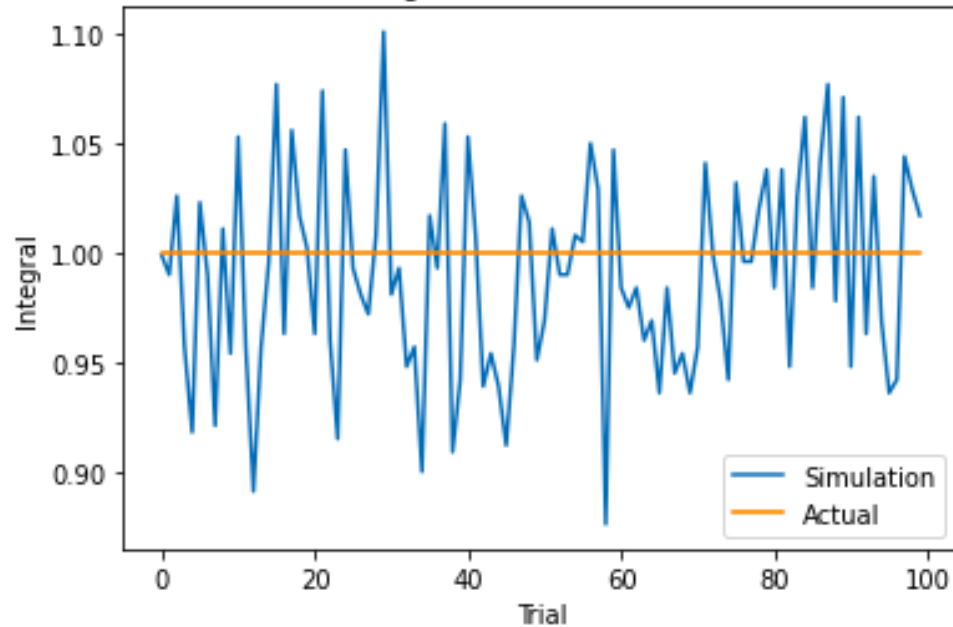I_1

Area vs N for I1

Standard Deviation: 0.3010738357038927
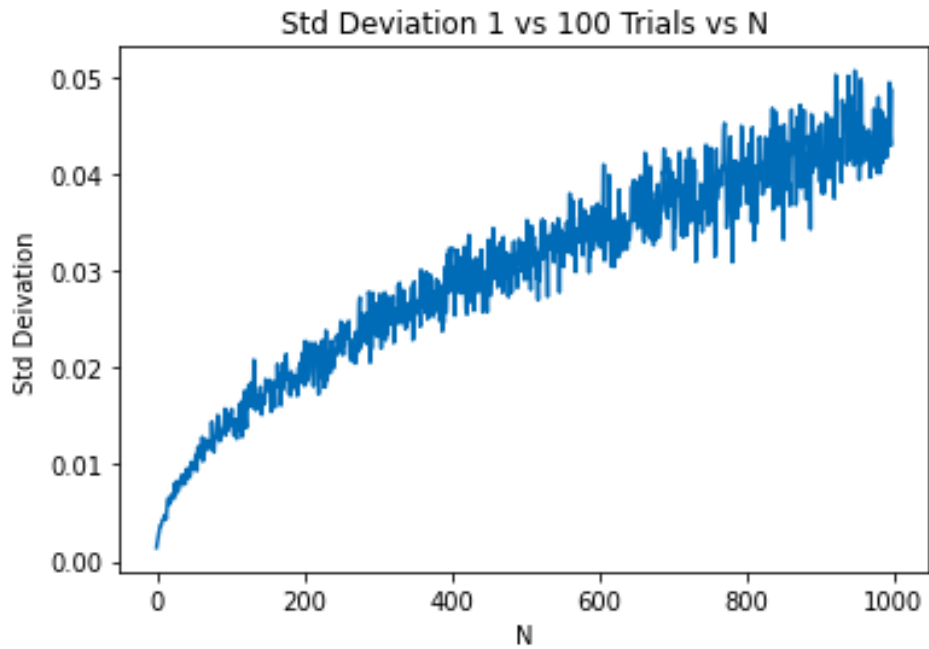
Integral 1 vs Trial N=20

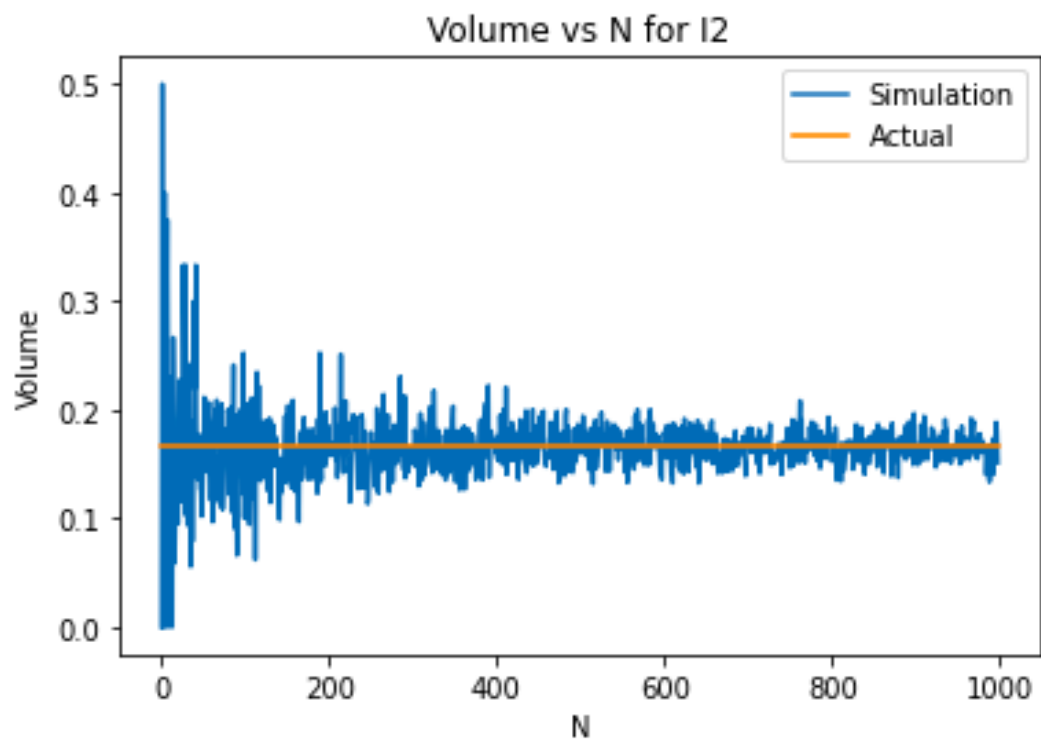Standard Deviation: 0.04660521820178898

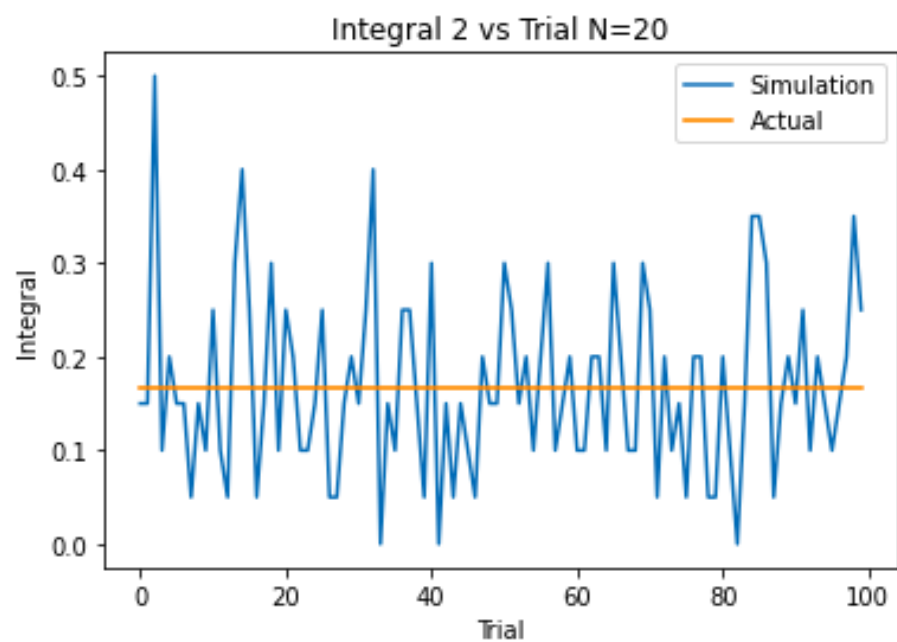## Integral 1 vs Trial N=1000

Std Deviation 1 vs 100 Trials vs N

The standard deviation obtained was proportional to the Sqrt(N) by a proportionality factor of around 710.

I_2

Standard Deviation: 0.0958165334418235

Standard Deviation: 0.01251349170885068

Integral 2 vs Trial N=1000

Std Deviation 2 vs 100 Trials vs N

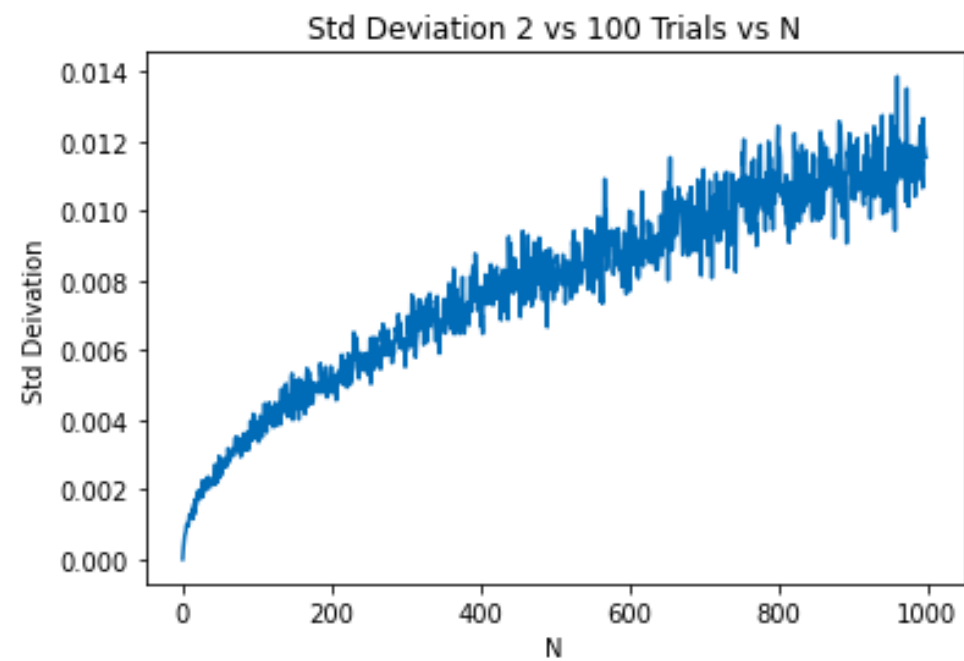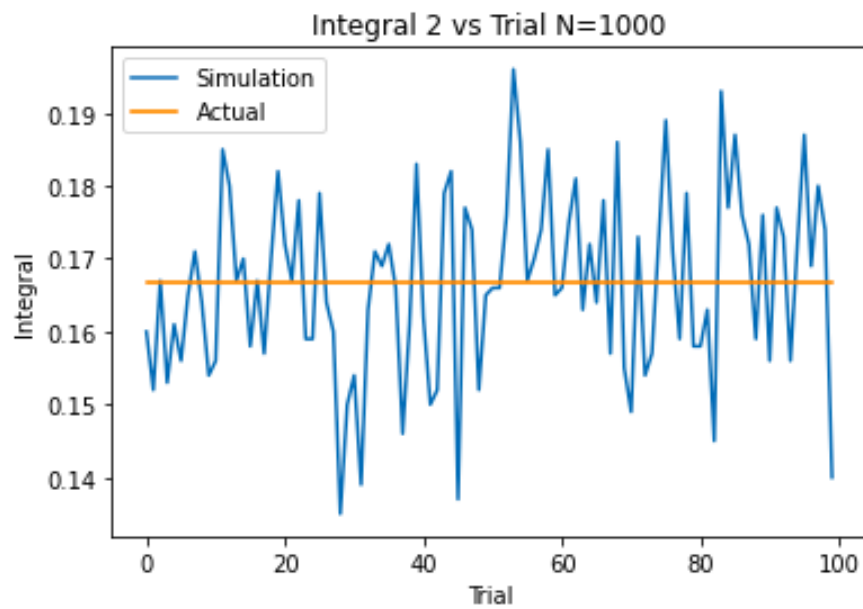The standard deviation obtained was proportional to the Sqrt(N) by a proportionality factor of around 1550.