

# Assignment #1

## Monte Carlo Method for $\pi$

Sec	100	100000	10000000
1	elapsed time: 9.104609489440918e-06 Count = 81, Samples = 100, Estimate of pi = 3.24000	elapsed time: 0.002188162878155708 Count = 78642, Samples = 100000, Estimate of pi = 3.14568	elapsed time: 0.2377902045845985 Count = 7855063, Samples = 10000000, Estimate of pi = 3.14203
2	8.860602974891663e-06 Count = 81, Samples = 100, Estimate of pi = 3.24000	elapsed time: 0.001351060345768929 Count = 78633, Samples = 100000, Estimate of pi = 3.14532	elapsed time: 0.1145117226988077 Count = 7855264, Samples = 10000000, Estimate of pi = 3.14211
4	elapsed time: 1.301243901252747e-05 Count = 81, Samples = 100, Estimate of pi = 3.24000	elapsed time: 0.0006941072642803192 Count = 78403, Samples = 100000, Estimate of pi = 3.13612	elapsed time: 0.0589402299374342 Count = 7853239, Samples = 10000000, Estimate of pi = 3.14130
8	elapsed time: 1.006573438644409e-05 Count = 81, Samples = 100, Estimate of pi = 3.24000	elapsed time: 0.0006232671439647675 Count = 78388, Samples = 100000, Estimate of pi = 3.13552	elapsed time: 0.03083029389381409 Count = 7855329, Samples = 10000000, Estimate of pi = 3.14213
16	elapsed time: 1.096352934837341e-05 Count = 81, Samples = 100, Estimate of pi = 3.24000	elapsed time: 0.0005925707519054413 Count = 78333, Samples = 100000, Estimate of pi = 3.13332	elapsed time: 0.01573502272367477 Count = 7855224, Samples = 10000000, Estimate of pi = 3.14209

