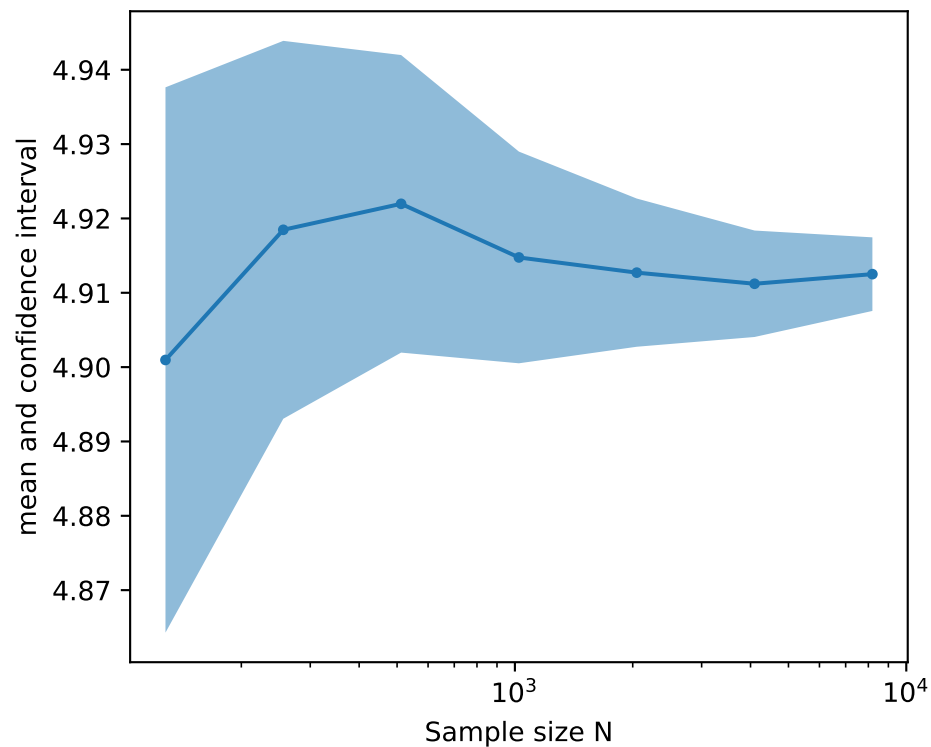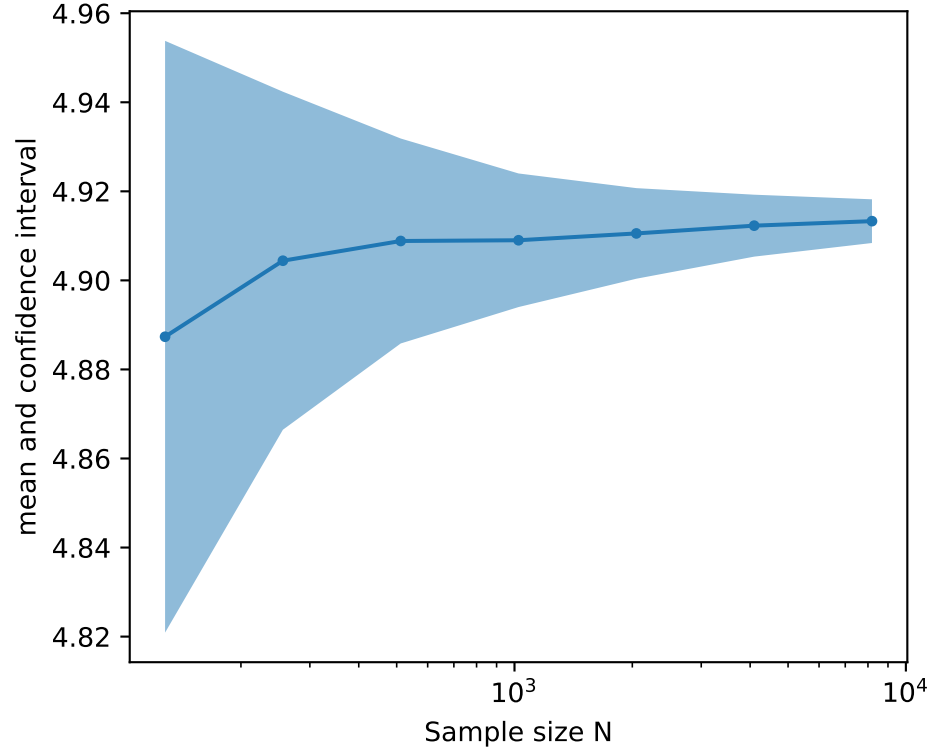Goal 1: Interval of confidence $1 - 0.01$, m=512