ECE 341 - Homework #12

t-Test with a Single Population. Summer 2024

6-Card Poker

The computed odds of being dealt a full-house in 6-card poker are in homework set #2.

1) The result of four Monte-Carlo simulations with 100,000 poker hands are:

811 805 809 804

From these results, determine the 90% confidence interval for the odds of being dealt a full-house

2) The result of twenty Monte-Carlo simulations with 100,000 poker hands are:

811	805	809	804	837	830	841	770	889	821
850	754	786	763	754	855	785	724	815	823

From these results, determine the 90% confidence interval for the odds of getting a full-house.

6-Card Draw

The computed odds of getting a full house in 6-card poker with a draw step was found in homework #2

3) The result of four Monte-Carlo simulations with 100,000 poker hands are:

3747 3633 3764 3692

From these results, determine the 90% confidence interval for the odds of getting a full-house.

4)	The result of twenty	Monte-Carlo	simulations wit	th 100,000 j	poker hands are:
----	----------------------	-------------	-----------------	--------------	------------------

3747	3633	3764	3692	3760	3793	3778	3708	3786	3650
3664	3777	3744	3788	3739	3620	3701	3759	3848	3693

From these results, determine the 90% confidence interval for the odds of getting a full house.

Reaction Time

5) Go to the Human Benchmark Dashboard and record your reaction time https://humanbenchmark.com/tests/reactiontime

6) From your results, determine the 90% confidence interval for your reaction time.

7) From your results, determine the probability that

- Your next trial will be less than 200ms
- Your average reaction time is less than 200ms