

Thomas Crow

11/14/2021

CS120

Assignment 12 Question 1

Output

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tbcrow@1034076: ~/Documents/ENMU/CS120/Assignments/Assignment #12
python3.9 Thomas_Crow_Assignment12-1.py

This program simulates a game of racquetball between two
players called "A" and "B". The ability of each player is
indicated by a probability (a number between 0 and 1) that
the player wins the point when serving. Player A always
has the first serve.
What is the prob. player A wins a serve? .7
What is the prob. player B wins a serve? .5
How many games to simulate? 1000

Games simulated: 1000
Wins for A: 926 ( 92.6%)
The number of shutouts for A: 0 ( 0.0%)
Wins for B: 74 ( 7.4%)
The number of shutouts for B: 53 ( 71.0%)

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players called "A" and "B". The ability of each player is
indicated by a probability (a number between 0 and 1) that
the player wins the point when serving. Player A always
has the first serve.
What is the prob. player A wins a serve? .5
What is the prob. player B wins a serve? .5
How many games to simulate? 500

Games simulated: 500
Wins for A: 248 ( 49.6%)
The number of shutouts for A: 1 ( 0.4%)
Wins for B: 252 ( 50.4%)
The number of shutouts for B: 2 ( 0.8%)

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players called "A" and "B". The ability of each player is
indicated by a probability (a number between 0 and 1) that
the player wins the point when serving. Player A always
has the first serve.
What is the prob. player A wins a serve? .7
What is the prob. player B wins a serve? .7
How many games to simulate? 100

Games simulated: 100
Wins for A: 68 ( 68.0%)
The number of shutouts for A: 1 ( 1.5%)
Wins for B: 32 ( 32.0%)
The number of shutouts for B: 2 ( 6.2%)

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