

Project Parlay

James Tran, Jason Bohlinger, Andrew Broek,
Max Hartel



Concept

This application is meant to take user input for the capital they'd like place down on what games and tell them the best way to split that bet (called a Parlay) to win back the most capital.



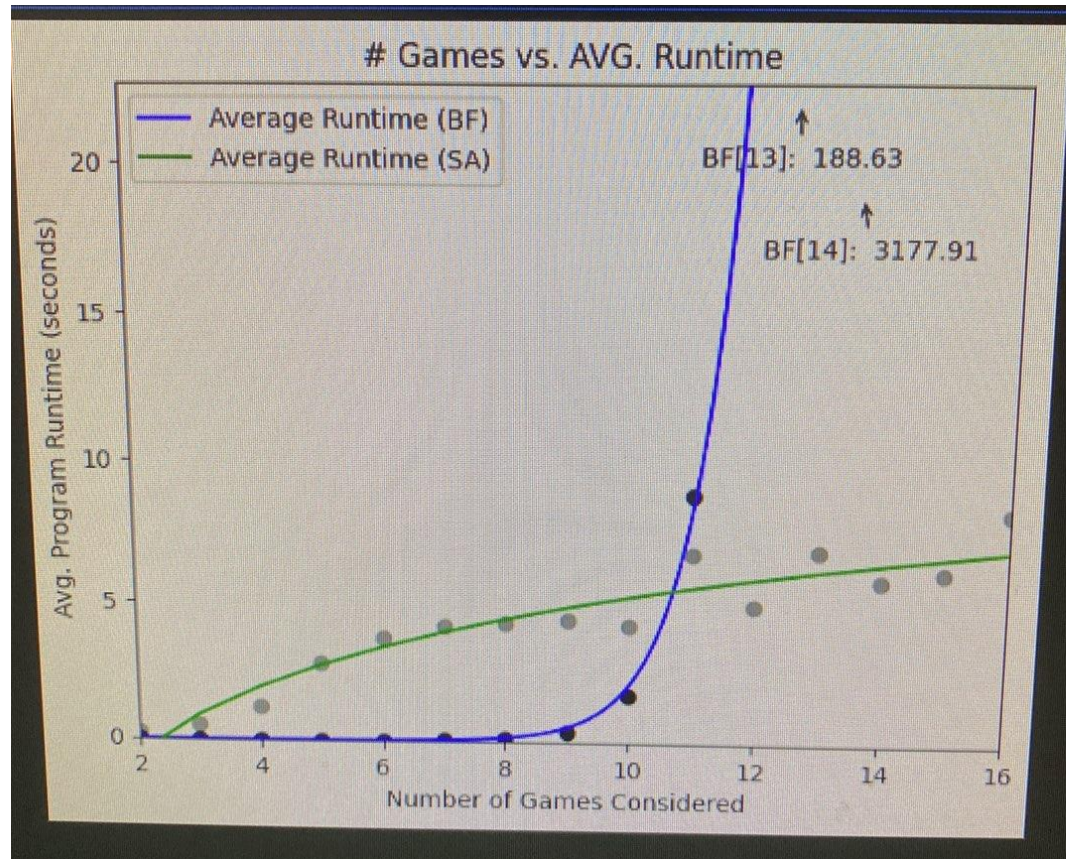
Background and Literature

- What is a parlay?
 - a single bet that links together two or more individual wagers and is dependent on all of those wagers winning together
- Insert information of background literature used for development
- Potential personal anecdote to help inform motivations



Implementation (Front-end and Back-end)

- Python tkinter for interactive front end
 - simple , clean, and easy to use
- Can also print the ASCII results into a webpage to view
- SQLite for backend
 - Database full of game info that is queried by our program
- Supported by simulated annealing algorithm



Runtime Comparison between Brute Force(BF) and Simulated Annealing(SA)



Demo



Results and Achievements

- We were able to accomplish the main feature of the program of calculating the best parlays for the user based on their input
- We were not able to get it directly ported to a web app but the results can still be accessed in an HTML opened in a browser or a tkinter window



Future Directions

- Database can be expanded to include more sports and their relevant stats
 - Horse racing would be a large target audience, but almost any sport can work
- Further optimization with more specialized algorithms
- Calling an API to get live results from games and active parlays
- Creating a more sophisticated front-end