Implementation Design Explanation

We were given sample data so I thought to recreate the sample data first step by step then make changes for bonus points. When creating the machine project, my thought process as I was programming was the following:

- 1.) First, was making a function that displays the donkeys' position, I thought to visualize it first as visualizing helps me.
- 2.) Get user input and use conditionals to modify the donkeys' displayed position based on the user's input.
- 3.) Check for the game end conditions and display "Game Over" if those conditions are met
- 4.) Check for all possible user selection errors and inform the user.
- 5.) Clean up code and debug.
- 6.) Add bonus features, and debug again.

User-defined Functions

Function Name	Description	Input Parameters	Return Data
applySpeedup	Applies the speedup condition to the donkeys, must be a minimum of 1	donkey - the donkey to apply the speedup towards.	The speed of the donkey after applying the speedup
checklfGameD one	Checks if all the conditions to end the game are met	 d1 - location of donkey 1 d2 - location of donkey 2 d3 - location of donkey 3 d4 - location of donkey 4 	Returns false (0) if all donkeys have not crossed and true (1) if all donkeys have crossed.
mSleep	Makes console pause for a given amount of milliseconds	time - the amount of time the console pauses in milliseconds	none