## Rock Paper Scissors Algorithm

Summary: Play Rock Paper Scissors against the computer. The computer keeps track of player's weapon choices, and selects the weapon that will beat the user's most frequent choice.

## Algorithm:

- 1. Give user basic input directions and rules.
- 2. Setup a while loop to keep the game playing. "Quit" input from the user exits this loop.
- 3. Initialize variables for:
  - a. Round count
  - b. Weapon choice counts for each weapon type
  - c. Current computer weapon
  - d. Current user weapon
  - e. User wins
  - f. Computer wins
  - g. Ties
- 4. First round computer makes a random weapon selection
- 5. User inputs their weapon choice (sanitize input, repeatedly prompt)
- 6. Compare computer and user weapon choices
  - a. Using if statements, determine winner of round
  - b. Increment all variables as necessary
- 7. Compare weapon choice counts, select weapon that defeats user's most common weapon choice. If no most common weapon, make random selection.
- 8. Repeat step 5 through 7 until user inputs "Quit."
- 9. Print detailed summary of the game with rounds played, rounds won/lost/tied and weapons chosen how many times.