```
#include <iostream>
#include <fstream>
#include <string>
using namespace std;
#define ROCK2 u8"\U0001F5FB"
#define PAPER2 u8"\U0001F4C3"
#define SCISSORS2 u8"\U0001F52A"
#define LIZARD2 u8"\U0001F438"
#define SPOCK2 u8"\U0001F596"
/**
 * Hands
 * Description:
      Creates references to emojis for RPSLS.
        Generates random hands for both players.
 * Public Methods:
      - Rock, Paper, Scissors, Lizzard, Spock
           - returns emoji
       - RandHand
            - returns random hands
 * Usage:
       - Mainly a parent class for 'Player'
 */
class Hands
{
public:
    const string rock = ROCK2;
    const string paper = PAPER2;
    const string scissors = SCISSORS2;
    const string lizard = LIZARD2;
    const string spock = SPOCK2;
    string arr[5] = {ROCK2, PAPER2, SCISSORS2, LIZARD2, SPOCK2};
    static string Rock()
    {
       return ROCK2;
    }
    static string Paper()
       return PAPER2;
    static string Scissors()
        return SCISSORS2;
```

```
static string Lizard()
        return LIZARD2;
    static string Spock()
        return SPOCK2;
   string RandHand()
     srand(time(NULL));
     return arr[rand() % 5];
};
/**
* Player
 * Description:
    Creates a player
 * Public Methods:
       - Constructor creats players with random weapons
       - Overloaded '>' op
             - basically creates the rules for RPSLS
 * Usage:
      - Create Players and use op to battle.
class Player : public Hands
{
public:
   string weapon1;
   string weapon2;
     * Constructor guarantees a player has two different "weapons"
    */
    Player()
        weapon1 = RandHand();
       weapon2 = RandHand();
       while (weapon2 == weapon1)
        {
            weapon2 = Hands::RandHand();
        }
   }
    bool operator>(const Player rhs)
       // rock crushes lizard and scissors
```

```
if (this->weapon1 == ROCK2)
{
    if (rhs.weapon1 == SCISSORS2 || rhs.weapon1 == LIZARD2)
        return true;
    }
// paper covers rock and disproves spock
else if (this->weapon1 == PAPER2)
    if (rhs.weapon1 == ROCK2 || rhs.weapon1 == SPOCK2)
    {
        return true;
    }
// scissors cuts paper and decapitates lizard
else if (this->weapon1 == SCISSORS2)
    if (rhs.weapon1 == PAPER2 || rhs.weapon1 == LIZARD2)
    {
        return true;
    }
// lizard poisons spock and eats paper
else if (this->weapon1 == LIZARD2)
    if (rhs.weapon1 == SPOCK2 || rhs.weapon1 == PAPER2)
        return true;
// spock smashes scissors and vaporizes rock
else if (this->weapon1 == SPOCK2)
    if (rhs.weapon1 == ROCK2 || rhs.weapon1 == SCISSORS2)
    {
        return true;
    }
// if weapon1 fails, check weapon2
// rock crushes lizard and scissors
if (this->weapon2 == ROCK2)
    if (rhs.weapon2 == SCISSORS2 || rhs.weapon2 == LIZARD2)
        return true;
// paper covers rock and disproves spock
else if (this->weapon2 == PAPER2)
    if (rhs.weapon2 == ROCK2 || rhs.weapon2 == SPOCK2)
```

```
return true;
            }
        }
        // scissors cuts paper and decapitates lizard
        else if (this->weapon2 == SCISSORS2)
        {
            if (rhs.weapon2 == PAPER2 || rhs.weapon2 == LIZARD2)
                return true;
            }
        }
        // lizard poisons spock and eats paper
        else if (this->weapon2 == LIZARD2)
            if (rhs.weapon2 == SPOCK2 || rhs.weapon2 == PAPER2)
                return true;
            }
        // spock smashes scissors and vaporizes rock
        else if (this->weapon2 == SPOCK2)
            if (rhs.weapon2 == ROCK2 || rhs.weapon2 == SCISSORS2)
                return true;
            }
        // no one wins, tie
        return false;
};
```