

```
from random import randint, shuffle
```

```
class Player:
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```
    def __init__(self, name, role, hp, attack):
```

```
        self.name = name
```

```
        self.role = role
```

```
        self.hp = hp
```

```
        self.attack = attack
```

```
    def __str__(self):
```

```
        return f"{self.name} ({self.role}): HP: {self.hp}, Attack: {self.attack}"
```

```
    def attackOpponent(self, opponent):
```

```
        opponent.hp -= self.attack
```

```
        print(f"{self.name} attacks {opponent.name}! {opponent.name} now has {opponent.hp} HP.")
```

```
class Novice(Player):
```

```
    def __init__(self, name):
```

```
        super().__init__(name, "Novice", 100, 10)
```

```
class Swordsman(Player):
```

```
    def __init__(self, name):
```

```
        super().__init__(name, "Swordsman", 120, 15)
```

```
class Archer(Player):
```

```
    def __init__(self, name):
```

```
        super().__init__(name, "Archer", 100, 20)
```

```
class Magician(Player):
```

```
    def __init__(self, name):
```

```
        super().__init__(name, "Magician", 80, 25)
```

```
class Monster(Player):
```

```
    def __init__(self):
```

```
        super().__init__("Monster", "Boss", 150, 12)
```

```
class Game:
```

```
    def __init__(self):
```

```
        self.mode = None
```

```
    def startGame(self):
```

```
        print("\nWelcome to the Brawlhalla!\n")
```

```
        self.chooseMode()
```

```

    player1, player2 = self.createPlayer()
    self.playMatch(player1, player2)

def chooseMode(self):
    mode = input("Choose game mode:\n1. Single Player\n2. Player vs Player\nEnter your
choice: ")
    self.mode = "Single Player" if mode == '1' else "Player vs Player"

def createPlayer(self):
    if self.mode == "Single Player":
        return Novice(input("Enter your name: ")), Monster()
    else:
        return self.createPlayers(1), self.createPlayers(2)

def createPlayers(self, playerNum):
    name = input(f"Enter Player {playerNum} name: ")
    roleMap = {'1': Swordsman, '2': Archer, '3': Magician}
    role = input("Choose role:\n1. Swordsman\n2. Archer\n3. Magician\nEnter choice: ")
    return roleMap.get(role, Novice)(name)

def playMatch(self, player1, player2):
    print(f"\n{self.mode} Match:\n{player1}\n{player2}")
    turnOrder = [player1, player2]
    shuffle(turnOrder)

    while player1.hp > 0 and player2.hp > 0:
        for player in turnOrder:
            opponent = player1 if player == player2 else player2
            player.attackOpponent(opponent)
            if opponent.hp <= 0:
                print(f"\n{player.name} wins the match!")
                return

if __name__ == '__main__':
    Game().startGame()

```