

Leaping Frog Game

This is a demonstration of a game "Leaping Frog" a puzzle game

 try here

Rules

- 1. The left set of frogs can only move right, the right set of frogs can only move left.
- 2. Frogs can move forward one space, or move two spaces by jumping over another frog from opposite side.
- 3. The puzzle is solved when the two sets of frogs have switched positions.

```
In [2]: position = ['G', 'G', 'G', '-', 'B', 'B', 'B']
winning = ['B', 'B', 'B', '-', 'G', 'G', 'G']

print([0, 1, 2, 3, 4, 5, 6])
print(position)

while position != winning:
    pos = input(str("Press q to quit else \nEnter position of piece:"))

    if pos == "q":
        print("YOU LOSE")
        break
    else:
        pos = int(pos)

    if not (0 <= pos <= 6):
        print("Invalid move")
        continue

    if position[pos] == "-":
        print("Invalid Move")
        continue

    pos2 = 0
    if position[pos] == 'G':
        if pos + 1 <= 6 and position[pos + 1] == '-':
            pos2 = pos + 1
        elif pos + 2 <= 6 and position[pos + 2] == '-':
            pos2 = pos + 2
        else:
            print("Invalid Move")
            continue

    if position[pos] == 'B':
        if pos - 1 >= 0 and position[pos - 1] == '-':
            pos2 = pos - 1
        elif pos - 2 >= 0 and position[pos - 2] == '-':
            pos2 = pos - 2
        else:
            print("Invalid Move")
            continue

    position[pos], position[pos2] = position[pos2], position[pos]

    print(position)

if position == winning:
    print('YOU WON')
```

```
[0, 1, 2, 3, 4, 5, 6]
['G', 'G', 'G', '-', 'B', 'B', 'B']
Press q to quit else
Enter position of piece:4
['G', 'G', 'G', 'B', '-', 'B', 'B']
Press q to quit else
Enter position of piece:2
['G', 'G', '-', 'B', 'G', 'B', 'B']
Press q to quit else
Enter position of piece:1
['G', '-', 'G', 'B', 'G', 'B', 'B']
Press q to quit else
Enter position of piece:3
['G', 'B', 'G', '-', 'G', 'B', 'B']
Press q to quit else
Enter position of piece:5
['G', 'B', 'G', 'B', 'G', '-', 'B']
Press q to quit else
Enter position of piece:6
['G', 'B', 'G', 'B', 'G', 'B', '-']
Press q to quit else
Enter position of piece:4
['G', 'B', 'G', 'B', '-', 'B', 'G']
Press q to quit else
Enter position of piece:2
['G', 'B', '-', 'B', 'G', 'B', 'G']
Press q to quit else
Enter position of piece:00
['-', 'B', 'G', 'B', 'G', 'B', 'G']
Press q to quit else
Enter position of piece:1
['B', '-', 'G', 'B', 'G', 'B', 'G']
Press q to quit else
Enter position of piece:3
['B', 'B', 'G', '-', 'G', 'B', 'G']
Press q to quit else
Enter position of piece:5
['B', 'B', 'G', 'B', 'G', '-', 'G']
Press q to quit else
Enter position of piece:4
['B', 'B', 'G', 'B', '-', 'G', 'G']
Press q to quit else
Enter position of piece:2
['B', 'B', '-', 'B', 'G', 'G', 'G']
Press q to quit else
Enter position of piece:3
['B', 'B', 'B', '-', 'G', 'G', 'G']
YOU WON
```

sol 4,2,1,3,5,6,4,2,0,1,3,5,4,2,3