In [1]:
```python
import sys

def make_move(board, flag, hole):
    if (board[hole] == 0):
        print("-----Hole is empty------")
        return board, flag

    seeds = board[hole]
    board[hole] = 0
    current_hole = hole

    while seeds > 0:
        current_hole = (current_hole + 1) % 14
        if (flag == 0 and current_hole == 7) or (flag == 1 and current_hole == 0):
            continue
        board[current_hole] += 1
        seeds -= 1
    if flag == 0 and 1 <= current_hole <= 6 and board[current_hole] == 1 and board[
        board[0] += board[current_hole] + board[14 - current_hole]
        board[current_hole] = board[14 - current_hole] = 0

    elif flag == 1 and 8 <= current_hole <= 13 and board[current_hole] == 1 and boa
        board[7] += board[current_hole] + board[14 - current_hole]
        board[current_hole] = board[14 - current_hole] = 0

    if current_hole != 0 or current_hole == 7:
        flag = 1 - flag

    if all(seeds == 0 for seeds in board[1:7]) or all(seeds == 0 for seeds in board
        end_game(board)
        sys.exit()

    return board, flag

def end_game(board):
    print("\nGame Over!")
    print("Player A's score:", board[0])
    print("Player B's score:", board[7])
    if board[0] > board[7]:
        print("Player A wins!")
    elif board[0] < board[7]:
        print("Player B wins!")
    else:
        print("It's a tie!")

board = [7] * 14
board[7] = board[0] = 0
flag = 0
hole = 0

while True:
    print("\nCurrent Board:")
    print("Player A's score:", board[0])
    print("Player B's score:", board[7])
    if flag == 0:
        print()
        print("Player A's turn")
        hole = int(input("Choose a hole (1-6): "))
    else:
        print()
        print("Player B's turn")
        hole = int(input("Choose a hole (8-13): "))
```

```python
    if (flag == 0 and 1 <= hole <= 6) or (flag == 1 and 8 <= hole <= 13):
        board, flag = make_move(board, flag, hole)
    else:
        print("-----Invalid hole number. Between 1 and 6 (Player A) or Between 8 ar
        continue
```

```python
        if (flag == 0 and 1 <= hole <= 6) or (flag == 1 and 8 <= hole <= 13):
            board, flag = make_move(board, flag, hole)
        else:
            print("-----Invalid hole number. Between 1 and 6 (Player A) or Between 8 ar
            continue
```

```
Current Board:
Player A's score: 0
Player B's score: 0

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 0
Player B's score: 0

Player B's turn
Choose a hole (8-13): 9

Current Board:
Player A's score: 0
Player B's score: 0

Player A's turn
Choose a hole (1-6): 4

Current Board:
Player A's score: 0
Player B's score: 0

Player B's turn
Choose a hole (8-13): 11

Current Board:
Player A's score: 0
Player B's score: 1

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 0
Player B's score: 1

Player B's turn
Choose a hole (8-13): 13

Current Board:
Player A's score: 0
Player B's score: 13

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 0
Player B's score: 13

Player B's turn
Choose a hole (8-13): 10

Current Board:
Player A's score: 0
Player B's score: 14

Player A's turn
Choose a hole (1-6): 6

Current Board:
```

```
Player A's score: 1
Player B's score: 14

Player B's turn
Choose a hole (8-13): 9

Current Board:
Player A's score: 1
Player B's score: 14

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 1
Player B's score: 14

Player B's turn
Choose a hole (8-13): 11

Current Board:
Player A's score: 1
Player B's score: 14

Player A's turn
Choose a hole (1-6): 2

Current Board:
Player A's score: 2
Player B's score: 14

Player B's turn
Choose a hole (8-13): 10

Current Board:
Player A's score: 2
Player B's score: 14

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 2
Player B's score: 14

Player B's turn
Choose a hole (8-13): 13

Current Board:
Player A's score: 2
Player B's score: 14

Player A's turn
Choose a hole (1-6): 2

Current Board:
Player A's score: 2
Player B's score: 14

Player B's turn
Choose a hole (8-13): 12

Current Board:
Player A's score: 2
```

```
Player B's score: 15

Player A's turn
Choose a hole (1-6): 6

Current Board:
Player A's score: 2
Player B's score: 15

Player B's turn
Choose a hole (8-13): 13

Current Board:
Player A's score: 2
Player B's score: 15

Player A's turn
Choose a hole (1-6): 4

Current Board:
Player A's score: 2
Player B's score: 15

Player B's turn
Choose a hole (8-13): 9

Current Board:
Player A's score: 2
Player B's score: 34

Player A's turn
Choose a hole (1-6): 1
-----Hole is empty-------

Current Board:
Player A's score: 2
Player B's score: 34

Player A's turn
Choose a hole (1-6): 4
-----Hole is empty-------

Current Board:
Player A's score: 2
Player B's score: 34

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 2
Player B's score: 34

Player B's turn
Choose a hole (8-13): 8

Current Board:
Player A's score: 2
Player B's score: 35

Player A's turn
Choose a hole (1-6): 4

Current Board:
```

```
Player A's score: 2
Player B's score: 35

Player B's turn
Choose a hole (8-13): 8

Current Board:
Player A's score: 2
Player B's score: 35

Player A's turn
Choose a hole (1-6): 1

Current Board:
Player A's score: 2
Player B's score: 35

Player B's turn
Choose a hole (8-13): 9

Current Board:
Player A's score: 2
Player B's score: 35

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 2
Player B's score: 35

Player B's turn
Choose a hole (8-13): 12

Current Board:
Player A's score: 2
Player B's score: 35

Player A's turn
Choose a hole (1-6): 3

Current Board:
Player A's score: 3
Player B's score: 35

Player B's turn
Choose a hole (8-13): 5
-----Invalid hole number. Between 1 and 6 (Player A) or Between 8 and 13 (Player
B)-----

Current Board:
Player A's score: 3
Player B's score: 35

Player B's turn
Choose a hole (8-13): 9

Current Board:
Player A's score: 3
Player B's score: 35

Player A's turn
Choose a hole (1-6): 3
-----Hole is empty-------
```

```
Current Board:
Player A's score: 3
Player B's score: 35

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 3
Player B's score: 35

Player B's turn
Choose a hole (8-13): 13

Current Board:
Player A's score: 3
Player B's score: 35

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 3
Player B's score: 35

Player B's turn
Choose a hole (8-13): 8

Current Board:
Player A's score: 3
Player B's score: 35

Player A's turn
Choose a hole (1-6): 6

Current Board:
Player A's score: 4
Player B's score: 35

Player B's turn
Choose a hole (8-13): 13

Current Board:
Player A's score: 4
Player B's score: 35

Player A's turn
Choose a hole (1-6): 2

Current Board:
Player A's score: 4
Player B's score: 35

Player B's turn
Choose a hole (8-13): 10

Current Board:
Player A's score: 4
Player B's score: 36

Player A's turn
Choose a hole (1-6): 4
```

```
Current Board:
Player A's score: 4
Player B's score: 36

Player B's turn
Choose a hole (8-13): 9

Current Board:
Player A's score: 4
Player B's score: 36

Player A's turn
Choose a hole (1-6): 2

Current Board:
Player A's score: 4
Player B's score: 36

Player B's turn
Choose a hole (8-13): 11

Current Board:
Player A's score: 4
Player B's score: 37

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 4
Player B's score: 37

Player B's turn
Choose a hole (8-13): 9

Current Board:
Player A's score: 4
Player B's score: 37

Player A's turn
Choose a hole (1-6): 1

Current Board:
Player A's score: 4
Player B's score: 37

Player B's turn
Choose a hole (8-13): 11

Current Board:
Player A's score: 4
Player B's score: 37

Player A's turn
Choose a hole (1-6): 6

Current Board:
Player A's score: 4
Player B's score: 37

Player B's turn
Choose a hole (8-13): 13

Current Board:
```

```
Player A's score: 4
Player B's score: 37

Player A's turn
Choose a hole (1-6): 6

Current Board:
Player A's score: 4
Player B's score: 37

Player B's turn
Choose a hole (8-13): 9

Current Board:
Player A's score: 4
Player B's score: 37

Player A's turn
Choose a hole (1-6): 4

Current Board:
Player A's score: 4
Player B's score: 37

Player B's turn
Choose a hole (8-13): 11

Current Board:
Player A's score: 4
Player B's score: 39

Player A's turn
Choose a hole (1-6): 2

Current Board:
Player A's score: 4
Player B's score: 39

Player B's turn
Choose a hole (8-13): 8

Current Board:
Player A's score: 4
Player B's score: 39

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 4
Player B's score: 39

Player B's turn
Choose a hole (8-13): 12

Current Board:
Player A's score: 4
Player B's score: 40

Player A's turn
Choose a hole (1-6): 4

Current Board:
Player A's score: 4
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```
Player B's score: 40

Player B's turn
Choose a hole (8-13): 11

Current Board:
Player A's score: 4
Player B's score: 40

Player A's turn
Choose a hole (1-6): 4
-----Hole is empty-------

Current Board:
Player A's score: 4
Player B's score: 40

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 4
Player B's score: 40

Player B's turn
Choose a hole (8-13): 9

Current Board:
Player A's score: 4
Player B's score: 40

Player A's turn
Choose a hole (1-6): 2

Current Board:
Player A's score: 16
Player B's score: 40

Player B's turn
Choose a hole (8-13): 13

Current Board:
Player A's score: 16
Player B's score: 40

Player A's turn
Choose a hole (1-6): 5
-----Hole is empty-------

Current Board:
Player A's score: 16
Player B's score: 40

Player A's turn
Choose a hole (1-6): 1

Current Board:
Player A's score: 16
Player B's score: 40

Player B's turn
Choose a hole (8-13): 8

Current Board:
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```
Player A's score: 16
Player B's score: 40

Player A's turn
Choose a hole (1-6): 4

Current Board:
Player A's score: 18
Player B's score: 40

Player B's turn
Choose a hole (8-13): 11

Current Board:
Player A's score: 18
Player B's score: 40

Player A's turn
Choose a hole (1-6): 5
-----Hole is empty-------

Current Board:
Player A's score: 18
Player B's score: 40

Player A's turn
Choose a hole (1-6): 3

Current Board:
Player A's score: 21
Player B's score: 40

Player B's turn
Choose a hole (8-13): 12

Current Board:
Player A's score: 21
Player B's score: 40

Player A's turn
Choose a hole (1-6): 3

Current Board:
Player A's score: 21
Player B's score: 40

Player B's turn
Choose a hole (8-13): 9

Current Board:
Player A's score: 21
Player B's score: 40

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 21
Player B's score: 40

Player B's turn
Choose a hole (8-13): 10

Current Board:
```

```
Player A's score: 21
Player B's score: 40

Player A's turn
Choose a hole (1-6): 2

Current Board:
Player A's score: 21
Player B's score: 40

Player B's turn
Choose a hole (8-13): 11

Current Board:
Player A's score: 21
Player B's score: 40

Player A's turn
Choose a hole (1-6): 6

Current Board:
Player A's score: 22
Player B's score: 40

Player B's turn
Choose a hole (8-13): 13

Current Board:
Player A's score: 22
Player B's score: 40

Player A's turn
Choose a hole (1-6): 6
-----Hole is empty-------

Current Board:
Player A's score: 22
Player B's score: 40

Player A's turn
Choose a hole (1-6): 4

Current Board:
Player A's score: 22
Player B's score: 40

Player B's turn
Choose a hole (8-13): 12

Current Board:
Player A's score: 22
Player B's score: 40

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 22
Player B's score: 40

Player B's turn
Choose a hole (8-13): 10

Current Board:
```

```
Player A's score: 22
Player B's score: 43

Player A's turn
Choose a hole (1-6): 5
-----Hole is empty-------

Current Board:
Player A's score: 22
Player B's score: 43

Player A's turn
Choose a hole (1-6): 6

Current Board:
Player A's score: 22
Player B's score: 43

Player B's turn
Choose a hole (8-13): 11

Current Board:
Player A's score: 22
Player B's score: 43

Player A's turn
Choose a hole (1-6): 3

Current Board:
Player A's score: 27
Player B's score: 43

Player B's turn
Choose a hole (8-13): 11
-----Hole is empty-------

Current Board:
Player A's score: 27
Player B's score: 43

Player B's turn
Choose a hole (8-13): 12

Current Board:
Player A's score: 27
Player B's score: 43

Player A's turn
Choose a hole (1-6): 4

Current Board:
Player A's score: 27
Player B's score: 43

Player B's turn
Choose a hole (8-13): 10
-----Hole is empty-------

Current Board:
Player A's score: 27
Player B's score: 43

Player B's turn
Choose a hole (8-13): 11
```

```
-----Hole is empty-------

Current Board:
Player A's score: 27
Player B's score: 43

Player B's turn
Choose a hole (8-13): 13

Current Board:
Player A's score: 27
Player B's score: 43

Player A's turn
Choose a hole (1-6): 1

Current Board:
Player A's score: 27
Player B's score: 43

Player B's turn
Choose a hole (8-13): 13
-----Hole is empty-------

Current Board:
Player A's score: 27
Player B's score: 43

Player B's turn
Choose a hole (8-13): 12
-----Hole is empty-------

Current Board:
Player A's score: 27
Player B's score: 43

Player B's turn
Choose a hole (8-13): 11
-----Hole is empty-------

Current Board:
Player A's score: 27
Player B's score: 43

Player B's turn
Choose a hole (8-13): 10
-----Hole is empty-------

Current Board:
Player A's score: 27
Player B's score: 43

Player B's turn
Choose a hole (8-13): 9
-----Hole is empty-------

Current Board:
Player A's score: 27
Player B's score: 43

Player B's turn
Choose a hole (8-13): 8

Current Board:
```

```
Player A's score: 27
Player B's score: 43

Player A's turn
Choose a hole (1-6): 4

Current Board:
Player A's score: 27
Player B's score: 43

Player B's turn
Choose a hole (8-13): 9

Current Board:
Player A's score: 27
Player B's score: 43

Player A's turn
Choose a hole (1-6): 2

Current Board:
Player A's score: 30
Player B's score: 43

Player B's turn
Choose a hole (8-13): 11

Current Board:
Player A's score: 30
Player B's score: 43

Player A's turn
Choose a hole (1-6): 5

Current Board:
Player A's score: 30
Player B's score: 43

Player B's turn
Choose a hole (8-13): 11
-----Hole is empty-------

Current Board:
Player A's score: 30
Player B's score: 43

Player B's turn
Choose a hole (8-13): 12

Current Board:
Player A's score: 30
Player B's score: 43

Player A's turn
Choose a hole (1-6): 5
-----Hole is empty-------

Current Board:
Player A's score: 30
Player B's score: 43

Player A's turn
Choose a hole (1-6): 6
```

```
Current Board:
Player A's score: 30
Player B's score: 43

Player B's turn
Choose a hole (8-13): 11
-----Hole is empty-------

Current Board:
Player A's score: 30
Player B's score: 43

Player B's turn
Choose a hole (8-13): 9

Current Board:
Player A's score: 30
Player B's score: 47

Player A's turn
Choose a hole (1-6): 6
-----Hole is empty-------

Current Board:
Player A's score: 30
Player B's score: 47

Player A's turn
Choose a hole (1-6): 2
-----Hole is empty-------

Current Board:
Player A's score: 30
Player B's score: 47

Player A's turn
Choose a hole (1-6): 4
-----Hole is empty-------

Current Board:
Player A's score: 30
Player B's score: 47

Player A's turn
Choose a hole (1-6): 3
-----Hole is empty-------

Current Board:
Player A's score: 30
Player B's score: 47

Player A's turn
Choose a hole (1-6): 1

Current Board:
Player A's score: 30
Player B's score: 47

Player B's turn
Choose a hole (8-13): 11
-----Hole is empty-------

Current Board:
Player A's score: 30
```

```
                    Player B's score: 47

                    Player B's turn
                    Choose a hole (8-13): 9
                    -----Hole is empty-------

                    Current Board:
                    Player A's score: 30
                    Player B's score: 47

                    Player B's turn
                    Choose a hole (8-13): 8

                    Current Board:
                    Player A's score: 30
                    Player B's score: 47

                    Player A's turn
                    Choose a hole (1-6): 6
                    -----Hole is empty-------

                    Current Board:
                    Player A's score: 30
                    Player B's score: 47

                    Player A's turn
                    Choose a hole (1-6): 5
                    -----Hole is empty-------

                    Current Board:
                    Player A's score: 30
                    Player B's score: 47

                    Player A's turn
                    Choose a hole (1-6): 4
                    -----Hole is empty-------

                    Current Board:
                    Player A's score: 30
                    Player B's score: 47

                    Player A's turn
                    Choose a hole (1-6): 3

                    Current Board:
                    Player A's score: 33
                    Player B's score: 47

                    Player B's turn
                    Choose a hole (8-13): 9

                    Current Board:
                    Player A's score: 33
                    Player B's score: 47

                    Player A's turn
                    Choose a hole (1-6): 2

                    Current Board:
                    Player A's score: 33
                    Player B's score: 47

                    Player B's turn
                    Choose a hole (8-13): 11
```

```
-----Hole is empty-------

Current Board:
Player A's score: 33
Player B's score: 47

Player B's turn
Choose a hole (8-13): 12
-----Hole is empty-------

Current Board:
Player A's score: 33
Player B's score: 47

Player B's turn
Choose a hole (8-13): 13

Current Board:
Player A's score: 33
Player B's score: 47

Player A's turn
Choose a hole (1-6): 4
-----Hole is empty-------

Current Board:
Player A's score: 33
Player B's score: 47

Player A's turn
Choose a hole (1-6): 1

Current Board:
Player A's score: 33
Player B's score: 47

Player B's turn
Choose a hole (8-13): 11
-----Hole is empty-------

Current Board:
Player A's score: 33
Player B's score: 47

Player B's turn
Choose a hole (8-13): 10

Game Over!
Player A's score: 33
Player B's score: 49
Player B wins!
```

An exception has occurred, use %tb to see the full traceback.

SystemExit

D:\python\Lib\site-packages\IPython\core\interactiveshell.py:3534: UserWarning: To exit: use 'exit', 'quit', or Ctrl-D.
  warn("To exit: use 'exit', 'quit', or Ctrl-D.", stacklevel=1)

In [ ]: