



Frog Leap Puzzle

The objective of the puzzle is to switch the positions of all the colored frogs, so that all three green frogs are on the right and all three brown frogs are on the left. When all the frogs have reached the other side of the pond, you win!

Click on a frog to make it jump forward. A frog can jump a maximum of two spaces, and the destination spot must be free.

Green frogs can only hop to the right. Brown frogs can only hop to the left. Frogs can only jump onto an empty rock. A frog can jump over one frog to an empty rock—but only over one.

Frogs cannot jump back, only forward. It's easy to tell which way they can go—they face the way they want to jump.

If you get stuck and your frogs can't jump anywhere, press the “quit” button to quit the game.



Rules:

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

Cases:

- If entered position is not between 0 to 6.

```
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', '×', '■', '■', '■']

Press q to Quit
Enter position of piece you want to move: 7
Invalid Move

Press q to Quit
Enter position of piece you want to move:
```

- If character 'q' is entered to quit the game.

```
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', '×', '■', '■', '■']

Press q to Quit
Enter position of piece you want to move: 7
Invalid Move

Press q to Quit
Enter position of piece you want to move: q
You LOSE!
```

- If entered position is of empty leaf.

```
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', '×', '■', '■', '■']

Press q to Quit
Enter position of piece you want to move: 3
Invalid Move

Press q to Quit
```

- If the selected frog position performs the constraints given in rule 2 then the move is invalid.

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Enter position of piece you want to move: 5
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', '■', '■', '×', '■']

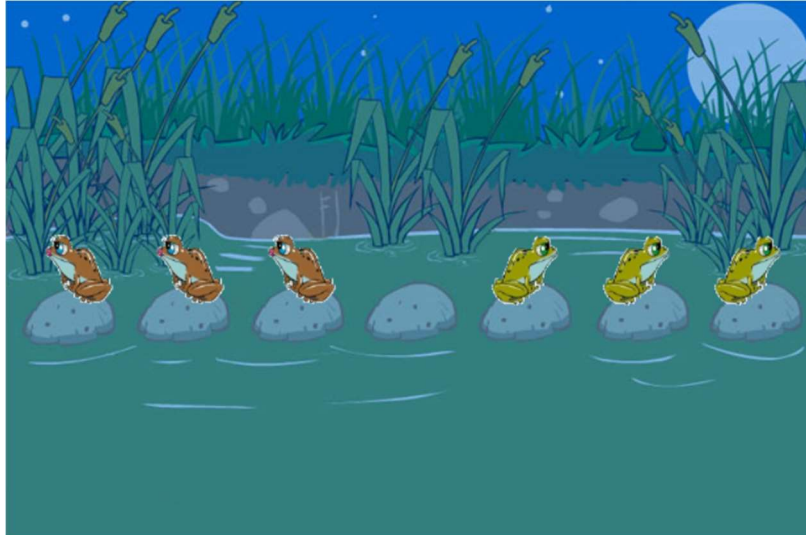
Press q to Quit
Enter position of piece you want to move: 2
Invalid Move

Process finished with exit code 0

```

Solution:

To win the puzzle, assign these numbers in the puzzle from left to right: 0 – 1 – 2 – 3 – 4 – 5 – 6 then use this sequence: 2, 4, 5, 3, 1, 0, 2, 4, 6, 5, 3, 1, 2, 4, 3.



🎉 **Congratulations you solved the puzzle!** 🎉

```

[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', 'x', '■', '■', '■']

Press q to Quit
Enter position of piece you want to move: 2
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', 'x', '■', '■', '■', '■']

Press q to Quit
Enter position of piece you want to move: 4
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', '■', 'x', '■', '■']

Press q to Quit
Enter position of piece you want to move: 5
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', '■', '■', 'x', '■']

Press q to Quit
Enter position of piece you want to move: 3
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', 'x', '■', '■', '■']

Press q to Quit
Enter position of piece you want to move: 1
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', 'x', '■', '■', '■', '■', '■']

Press q to Quit

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```

Press q to Quit
Enter position of piece you want to move: 0
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['x', '■', '■', '■', '■', '■', '■']

Press q to Quit
Enter position of piece you want to move: 2
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', 'x', '■', '■', '■', '■']

Press q to Quit
Enter position of piece you want to move: 4
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', '■', 'x', '■', '■']

Press q to Quit
Enter position of piece you want to move: 6
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', '■', '■', '■', 'x']

Press q to Quit
Enter position of piece you want to move: 5
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', '■', '■', 'x', '■']

Press q to Quit
Enter position of piece you want to move: 3
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', 'x', '■', '■', '■']

```

```

Press q to Quit
Enter position of piece you want to move: 3
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', 'x', '■', '■', '■']

Press q to Quit
Enter position of piece you want to move: 1
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', 'x', '■', '■', '■', '■', '■']

Press q to Quit
Enter position of piece you want to move: 2
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', 'x', '■', '■', '■', '■']

Press q to Quit
Enter position of piece you want to move: 4
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', '■', 'x', '■', '■']

Press q to Quit
Enter position of piece you want to move: 3
[ 0 , 1 , 2 , 3 , 4 , 5 , 6 ]
['■', '■', '■', 'x', '■', '■', '■']

You WIN!

Process finished with exit code 0

```