

## # The Puzzle Game Frog Leap

Welcome to the puzzle game Frog Leap! You may play the famous puzzle where you have to switch the places of the brown ('B') and green ('G') frogs in order to win in this console-based Python game.

### ## Guidelines :

1. Open `**FROG LEAP.ipynb**` in your choice Python environment and run the script. I used jupyter NoteBook.

2. Pay attention to the directions on the screen:

- Type in the frog's position (0 to 6) or press 'q' to end the game.
- Only the left can be travelled by brown frogs ('B'), and only the right by green frogs ('G').
- Frogs can jump over another frog to travel two spaces or move ahead one space.
- The moment the brown and green frogs exchange places, the puzzle is solved.

### CODE DETAILS :

#### **display\_current\_state(positions)**

This feature shows the frogs' current positions and the game's current status.

- **Positions:** List indicating where frogs and blank spaces are located.
- **frog\_positions:** List of frog locations and empty spaces that shows the game's current status.
- **user\_input:** Player-provided input, which indicates the frog position they have chosen or 'q' to end the game.
- **selected\_position:** An integer indicating the location of the frog that has been chosen.
- **empty\_position:** An integer that indicates where the empty space is located.

### Logic of the Game:

- Verifies user input, verifies the type of frog chosen, and executes appropriate movements.
- Switches the locations of the empty space and the chosen frog.  
Verifies whether the player has won the match.

**MY SOLUTION SEQUENCE :** 2,4,5,3,1,0,2,4,6,5,3,1,2,4,3

