



BoardGame2D

- playUser() = This function is a final function and it plays the game until the end of the game.
- playUser(string) = This function is the overloaded version of playUser(). It plays only one step.
- playAuto() = This function plays one step automatically by getting random input.
- playAutoAll() = This function is a final function and it plays the game randomly until the end of the game.

PegSolitaire, EightPuzzle, Klotski Overridden Functions from the Base Class BoardGame2D

- Initialize() = This function initializes the board using a vector equivalent for PegSolitaire and Klotski. For EightPuzzle, it happens using randomly chosen numbers.
- getUserIn() = This function gets the input from the user.
- getRandomIn() = This function creates random inputs for autoPlay.
- setInput() = This function checks the validation of input.
- movementValid() = This function checks the validation of given movement.
- move() = This function moves the chosen cell towards the given direction
- endGame() = This function checks if the game is ended.
- print() = This function prints the current board.
- operator<< = This function prints the current board as an overloaded function.

PegSolitaire

- helpercheck() = This function controls if the pegs are stuck or not.

- Peg Solitaire input = RowColumn-Direction e.g. 1E-U
- EightPuzzle and Klotski input = RowColumn-Direction e.g 12-D

- Peg Solitaire score function = Number of pegs left
- EightPuzzle and Klotski score function = Number of movements