BURAK KOCAUSTA

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CSE 241 HOMEWORK 8

Initial Screen

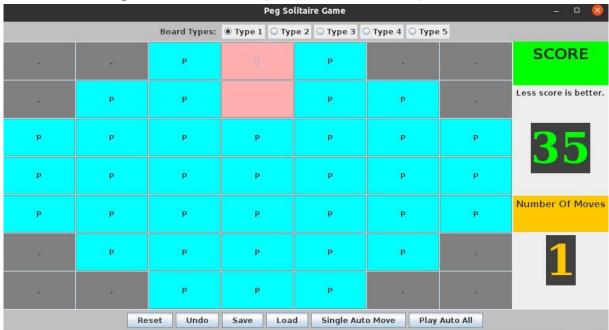


- Board types are represented with radio buttons above.
- Board is represented with JButtons and grid layout.
- Score and total number of successful move are right side on the screen.
- Reset, undo, save, load, single auto move, and play auto all buttons are on the south of the frame.

Board and Movement



When board's button is clicked, a directions menu pops up. After choosing valid direction (down in this case)



Score is decremented and number of moves is incremented after one valid movement. If move cannot be done it does nothing.

Single Auto Move and Play Auto All buttons

After clicking the Single Auto Move button



It makes one random valid move.

After clicking the Play Auto All button



Plays the game automatically till the end, and pops a message.

Undo and Reset Buttons

After clicking undo button

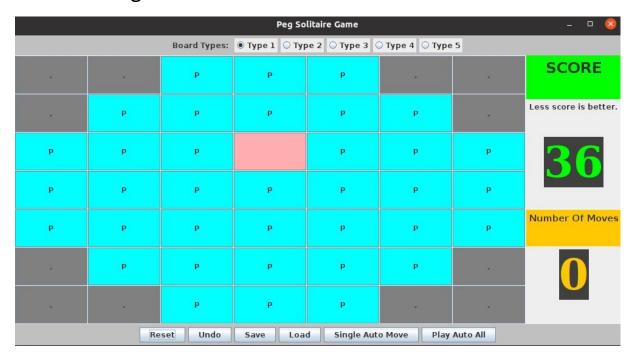


After one more clicking to undo button



It can be undoed till its initial state.

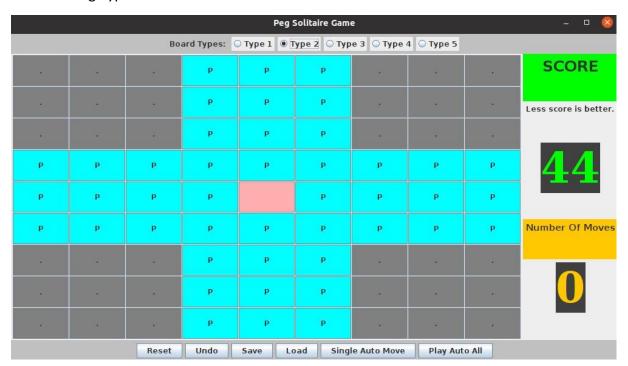
After clicking the reset button



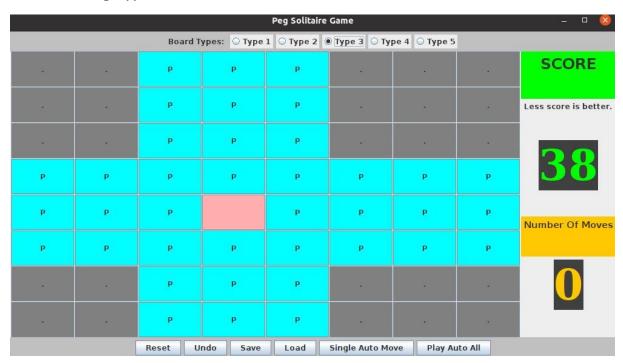
Board Type Buttons

- Boards can be played simultenously. Each type protects its current state during runtime.
- After clicking radio buttons each board and their scores comes to the frame.

After clicking Type 2



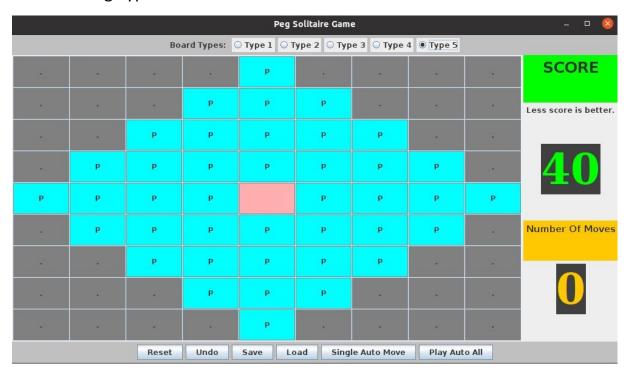
After Clicking Type 3



After Clicking Type 4



After Clicking Type 5



Boards current state is protected while switching their types, for example if you play a bit with Type 5 board.



After Clicking Type 1



After Playing Type 1 a bit



After clicking Type 5 again



It protects its last state.

Save and Load buttons

After clicking Save button

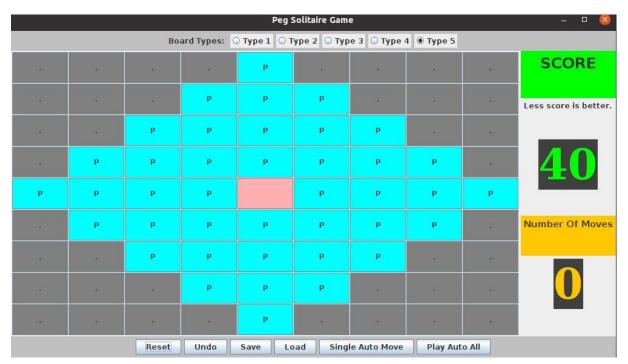


game4.txt file

```
numOfMove = 14
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
22
24
25
27
28
        state = 0
        boardType = 5
        rowBound = 9
       colBound = 9
...P...
..PPP...
..PPPP...
        .PP
        ..P P ...
        ... PP...
        46L
        65U
        66U
        36D
        57L
        34R
        44R
        32R
        37D
        36D
53U
        520
        73U
54L
```

command are listed below to provide undo option after loading

After clicking Reset button



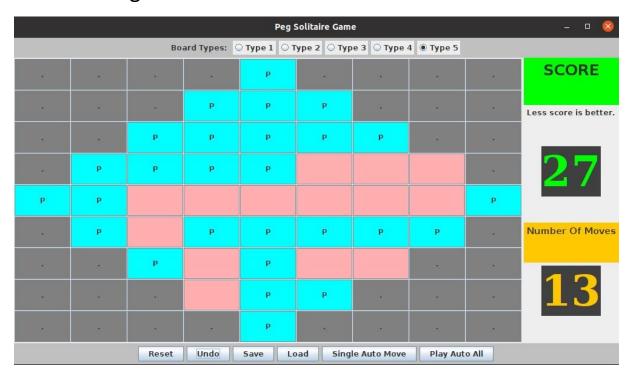
After clicking Load button



After clicking OK



After clicking Undo Button



After clicking Play Auto All Button



So, game supports undo operation and it is playable after loading.

Compilation and Run

File can be compiled with single make command or javac Test.java command in src directory.

It can be runned with make run command or java Test command in src directory.



Both are possible.