

Manifest:

- Board-KorideMok.cpp
- Board-KorideMok.hpp
- BoardTypes-KorideMok.cpp
- BoardTypes-KorideMok.hpp
- Canvas.cpp
- Canvas.hpp
- CanView.hpp
- Cluster-KorideMok.cpp
- Cluster-KorideMok.hpp
- Exceptions-KorideMok.cpp
- Exceptions-KorideMok.hpp
- Frame-KorideMok.cpp
- Frame-KorideMok.hpp
- Game-KorideMok.cpp
- Game-KorideMok.hpp
- GridChar.cpp
- GridChar.hpp
- makefile
- MixedChar.cpp
- MixedChar.hpp
- program.exe
- puzd.txt
- puzt.txt
- puzs.txt
- Square-KorideMok.cpp
- Square-KorideMok.hpp
- Stack-KorideMok.hpp
- State-KorideMok.cpp
- State-KorideMok.hpp
- SudokuMain-KorideMok.cpp
- tools.cpp
- tools.hpp
- UnitTests-KorideMok.cpp
- UnitTests-KorideMok.hpp
- Viewer.cpp
- Viewer.hpp

Proofs tell that a program's features in that iteration does not interfere with the program.

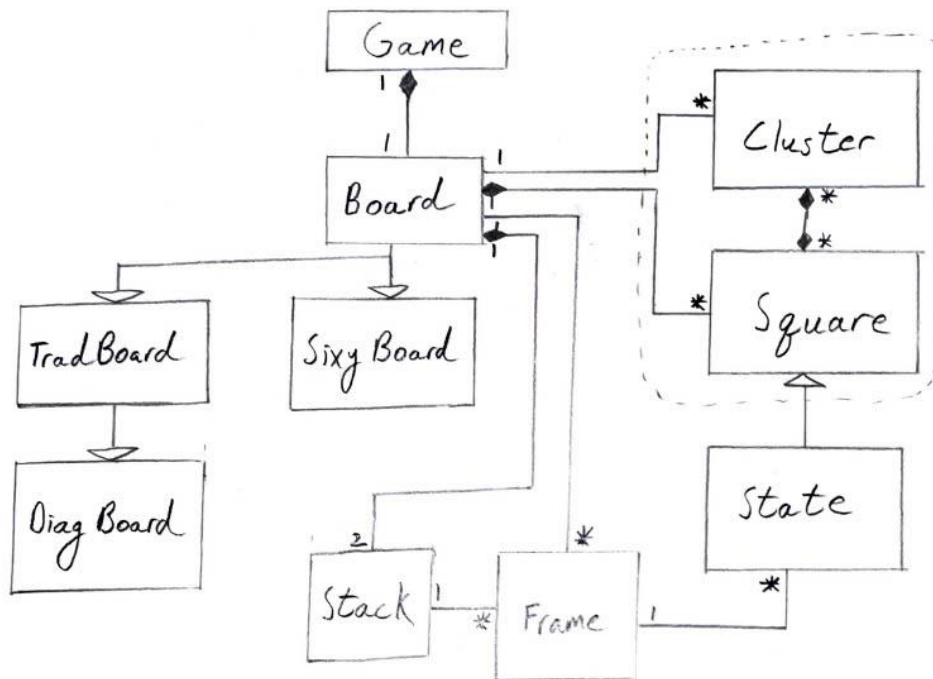
- P6proof.txt shows that P12 displays the correct output for Diagonal Boards.
- P7proof.txt shows that P12 properly errors out of the program for some cases.
- P11proof.txt shows that P11 displays the correct output for Sixty Boards.
- P12proof.txt shows that P12 compiles with the makefile and is correct.

I am most proud of `Square::turnoff(const int n)` in `Square-KorideMok.hpp`. It took some thought to use bit masking to remove the proper number in the list. Being able to come up with this solution on my own and using low-level bit operations was rewarding.

Diagrams:

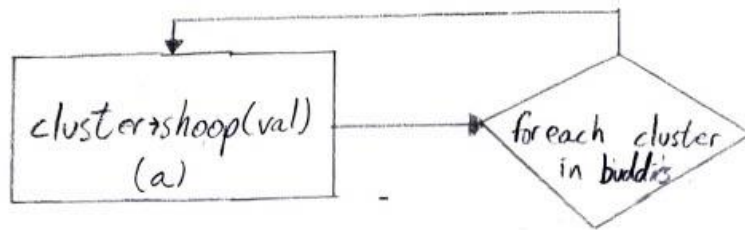
Sudoku UML Diagram

Dec. 29, 2022

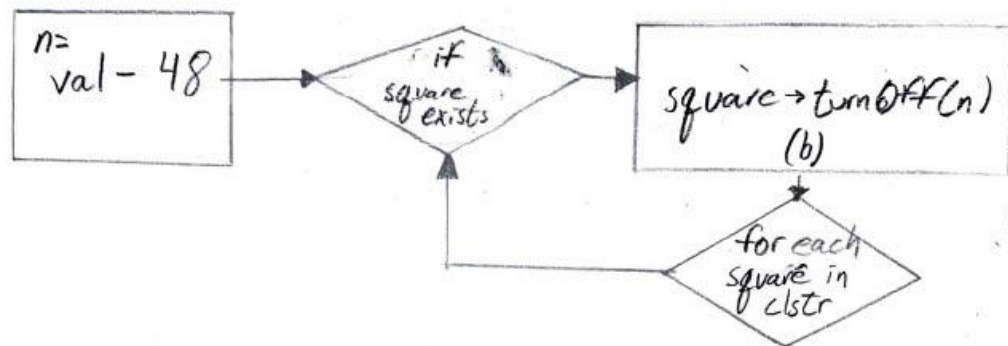


Square::shoop(char val) Flow Chart

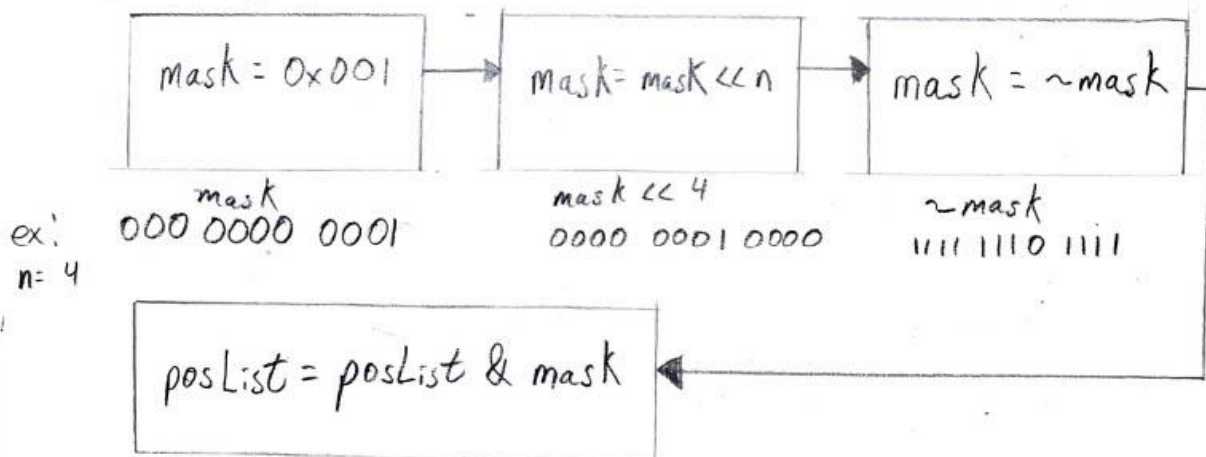
Dec. 29, 2022



(a) Cluster::shoop(char val)



(b) Square::turnOff(short n)



ex:
n = 4

mask
000 0000 0001

mask << 4
0000 0001 0000

~mask
111 1110 1111

ex.
posList = 0x3FE

posList = 0011 1111 1110
mask = 1111 1110 1111

posList & mask
=
0011 1110 1110