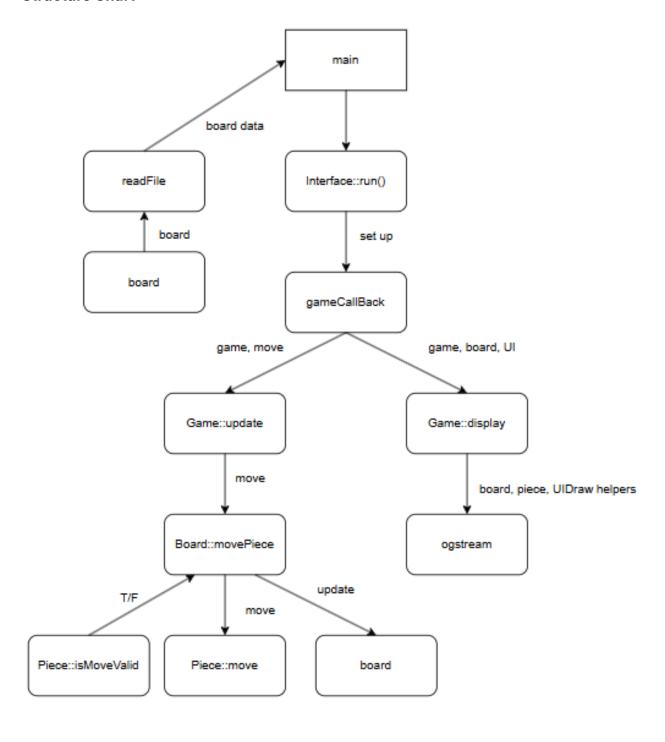
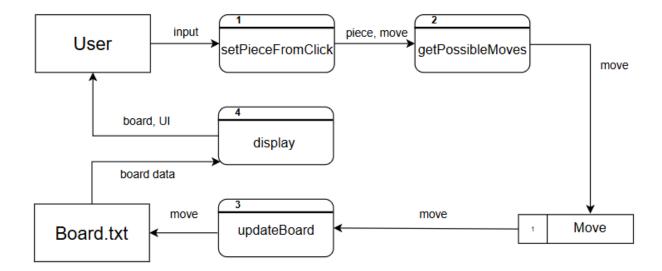
Lab 01: Chess Reverse Engineer

Structure Chart



Data Flow Diagram



Class Diagrams

uilnteract - initialize(title: const char*): void - initialized : bool - timePeriod : double - nextTick : unsigned long posHover: int - posSelect : int - posSelectPrev : int - widthScreen : int - heightScreen : int p : void* - callBack : (*)(Interface*, void*) uiDraw + Interface() #x:int + Interface(title: const char*) #v:int + run(cb: (*)(Interface*, void*), p: void*): void - drawPiece(x: int, y: int, black: bool, rectangle[]: Rect, num: int) : void + isTimeToDraw(): bool - drawText(x: int, y: int, text: char*) : void + setNextDrawTime(): void - Rect + getNextTick(): unsigned long + ogstream() + setFramesPerSecond(value: double): void + ogstream(position: int) + frameRate(): double + ~oastream() + getSquareWidth(): double + flush(): void + getSquareHeight(): double + setPosition(x: int, y: int): void + setScreen(width: int, height: int): void + drawKing(position: int, black: bool) : void + positionFromXY(x: int, y: int) : int + drawQueen(position: int, black: bool) : void + drawRook(position: int, black: bool) : void + getSelectPosition(): int + drawPawn(position: int, black: bool) : void + getHoverPosition(): int + drawBishop(position: int, black: bool): void + getPreviousPosition(): int + drawKnight(position: int, black: bool) : void + setSelectPosition(pos: int) : void + drawBoard(): void + clearSelectPosition(): void + drawSelected(position: int): void

+ drawHover(position: int): void

+ drawPossible(position: int): void

⊟ chess

+ setHoverPosition(pos: int) : void

+ clearPreviousPosition(): void

- + isNotWhite(board: char*, col: int, row: int) : bool
- + isWhite(board: char*, col: int, row: int) : bool
- + isNotBlack(board: char*, col: int, row: int) : bool
- + isBlack(board: char*, col: int, row: int): bool
- + getPossibleMoves(board: char*, location: int) : set<int>
- + draw(board: char*, ui: Interface&, possible: set<int>): void
- + move(board: char*, posFrom: int, posTo: int) : bool
- + callBack(pUI: Interface*, p: void*): void
- + parse(textMove: string, posFrom: int&, posTo: int&): void
- + readFile(fileName: char*, board: char*): void
- + main(...): int