```
Count
 int nodes
 int bitboads
 int bitboadsC4
 int nbleaves
 int nodes created
 int nodes saved
 int bitboads saved
 int bitboadsC4 saved
 int nbleaves saved
 int max depth
 static Count* UniqueInstance
 Count()
 ~Count()
 int ratio(int&, int&)
 Public:
 static Count* I()
 void addNode()
 void rmNode()
 void createNode(int)
 void addBitBoards()
 void rmBitBoards()
 void addBitBoardsC4()
 void rmBitBoardsC4()
 void saveNbLeaves(int)
 void saveMaxDepth(int)
 void clear()
 std::ostream& operator<< (std::ostream&, Count*)
<<singleton>>
Random
```

<<singleton>>

static uint64 t seed static Random* UniqueInstance static std::mt19937 64 rng Random(uint64 t) ~Random() Public: static Random* I(uint64 t) int getNum(int, int)

Move

std::string data

Public:

Move()

Move(std::string)

Move(int)

~Move()

int getInt()

std::string getMove()

void set(std::string)

std::string get()

bool compare(const Move) const

std::ostream& operator<< (std::ostream&, Move&) std::istream& operator>> (std::istream&, Move&)

bool operator== (const Move&, const Move&)

<<Interface>>

TheGame

Public:

~TheGame()

int end(const Bitboard*)

void play(Move&, Bitboard*)

void diplayBoard(const Bitboard*)

std::list<Move> listPossibleMoves(Bitboard*)

int playRandomMoves(Bitboard*)

Connect4

Public:

Connect4()

~Connect4()

int end(const Bitboard*)

void play(Move&, Bitboard*)

void diplayBoard(const Bitboard*)

std::list<Move> listPossibleMoves(Bitboard*)

int playRandomMoves(Bitboard*)

Bitboard

std::vector<uint64 t> boards short toplay short number short sizeX short sizeY

Public:

Bitboard()

Bitboard(int, int, int, int)

~Bitboard()

Bitboard* clone() const

int getSizeX() const

int getSizeY() const

int getBit(int n, int x, int y) const

int getBit(int n, int pos) const

void setBit(int n, int x, int y)

void setBit(int n, int pos)

void clearBit(int n, int x, int y)

void clearBit(int n, int pos)

uint64 t getBoard(int n) const

std::list<int> getEmpty(int n) const

std::list<int> getOccupied(int n)

int getPlayer() const

void play()

BitboardConnect4

Public:

BitboardConnect4()

~BitboardConnect4()

BitboardConnect4* clone() const std::list<int> getEmpty(int n) const