Boards Class Reference

Public Member Functions

	Boards ()
	~Boards ()
bool	isValid (int, int)
void	displayOffensiveBoard () const
void	displayDefensiveBoard () const
	Displays the offensive board of hits and misses for the. More
void	displayBoth () const
bool	isHit (int, int)
void	markShips (int, int)
bool	gameWon ()
char	getLocation (int, int)
void	boardShot (int, int)
void	ownBoardHit (int, int)
void	ownBoardMiss (int, int)
void	otherBoardHit (int, int)
void	otherBoardMiss (int, int)
void	clearBoards ()

Private Attributes

char offensiveBoard [8][8]

Creating a 2D array with size 8*8.

char defensiveBoard [8][8]

Creating a 2D array with size 8*8 for player to see their own board.

int rows

Get the coordinate's row and col number.

int cols

Constructor & Destructor Documentation

Boards()

Boards::Boards ()

Precondition

Player wants to make their boards.

Postcondition

Boards are filled with water and ready to use.

◆ ~Boards()

Boards::~Boards ()

Precondition

Users are done with the game.

Postcondition

Memory is freed from allocation.

Member Function Documentation

boardShot()

```
void Boards::boardShot ( int column, int row
```

Precondition

Takes two integers, one for column and one for row

Postcondition

none

Note

Marks the board with either an 'H' if a ship 'S' is found or an 'M' if water '~' is found

clearBoards()

void Boards::clearBoards ()

Precondition

Game is over and users want a rematch.

Postcondition

Boards are cleaned off.

displayBoth()

void Boards::displayBoth () const

Precondition

none

Postcondition

none

Note

Displays both the offensive and defensive boards for the current Player

displayDefensiveBoard()

void Boards::displayDefensiveBoard () const

Displays the offensive board of hits and misses for the.

Precondition

none

Postcondition

none

Note

Displays the defensive board for the current Player

displayOffensiveBoard()

void Boards::displayOffensiveBoard () const

Precondition

none

Postcondition

none

Note

Displays the offensive board for the current Player

gameWon()

bool Boards::gameWon ()

Precondition

none

Postcondition

Returns a boolean value

Note

Returns true if no more 'S' exist in the defensive array

getLocation()

```
char Boards::getLocation ( int column, int row
```

Precondition

Takes two integers, one for column and one for row

Postcondition

Returns a character

Note

Returns the character located at the specified location

• isHit()

```
bool Boards::isHit ( int column, int row )
```

Precondition

Takes two integers, one for column and one for row

Postcondition

returns a boolean value

Note

returns true if the position indicated is 'S'

• isValid()

```
bool Boards::isValid ( int column, int row
```

Precondition

Takes two integers, one for column and one for row

Postcondition

returns a boolean value

Note

returns true if the position indicated is '~'

markShips()

```
void Boards::markShips ( int column, int row )
```

Precondition

Takes two integers, one for column and one for row

Postcondition

none

Note

Marks the array with an 'S' at the specified location

otherBoardHit()

```
void Boards::otherBoardHit ( int column, int row
```

Precondition

Takes two integers, one for column and one for row

Postcondition

none

Note

When the player is being shoot at marks the hits, on their defensive board if the shot is a hit, marks the specified location with an 'M'

otherBoardMiss()

Precondition

Takes two integers, one for column and one for row

Postcondition

none

Note

When the player is being shoot at marks the misses, on their defensive board if the shot is a miss, marks the specified location with an 'M'

ownBoardHit()

```
void Boards::ownBoardHit ( int column, int row
```

Precondition

Takes two integers, one for column and one for row

Postcondition

none

Note

When the player is shooting marks the hits, on their offensive board if the shot is a hit, marks the specified location with an 'M'

ownBoardMiss()

Precondition

Takes two integers, one for column and one for row

Postcondition

none

Note

When the player is shooting marks the misses, on their offensive board if the shot is a hit, marks the specified location with an 'M'

The documentation for this class was generated from the following files:

- C:/Users/Qing Dong/Desktop/EECS_448_Seg_Faults-master/Boards.h
- C:/Users/Qing Dong/Desktop/EECS_448_Seg_Faults-master/Boards.cpp

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