

Program description.

This is a 2-player console TicTacToe game. Player 1 plays X, Player 2 plays O, players take turns. Game ends when one of the players wins (three X or O in a row, column or diagonal) or there is a draw (no more moves).

There are 6 classes: Cell (enum), GameBoard, InputException (own exception class), Messages, Reader, Main (contains main method).

Run program:

1. Welcomes players.
2. Asks if they want to play.
 - 2.1. If no – message is displayed and program quits.
 - 2.2. If yes – new game is started.
3. Displays the default 3x3 board.
4. Prompts each player to enter move – two integers from 1 to 3 separated by a space. First integer – column, second integer – row.
 - 4.1. If input is incorrect, message is displayed and program asks for input again.
 - 4.2. If input is correct, updated board is displayed.
5. If a player wins, message is displayed and program quits
6. If there is a draw, message is displayed and program quits.

Console output.

```
Olgas-MBP:Tictactoe olga$ java Main
Welcome to Tic Tac Toe!
Start new game?
Type Y or N:
qwerty
Y or N expected.
Start new game?
Type Y or N:
n
Thanks for playing!
Olgas-MBP:Tictactoe olga$ java Main
Welcome to Tic Tac Toe!
Start new game?
Type Y or N:
Y
Game started!
  |  |
-----
  |  |
-----
  |  |
```

Player X, enter your move:

type two integers from 1 to 3 separated by a space. First integer – column, second integer – row.

qwerty

Two integers expected.

Player X, enter your move:

type two integers from 1 to 3 separated by a space. First integer – column, second integer – row.

qwerty qwerty

Integers expected.

Player X, enter your move:

type two integers from 1 to 3 separated by a space. First integer – column, second integer – row.

69 69

Integers must be from 1 to 3.

Player X, enter your move:

type two integers from 1 to 3 separated by a space. First integer – column, second integer – row.

1 1

X			

Player O, enter your move:

type two integers from 1 to 3 separated by a space. First integer – column, second integer – row.

1 1

Cell at (1, 1) is not blank. Try again.

Player O, enter your move:

type two integers from 1 to 3 separated by a space. First integer – column, second integer – row.

1 2

X			

O			

Player X, enter your move:

type two integers from 1 to 3 separated by a space. First integer – column, second integer – row.

2 2

X			

O		X	

Player O, enter your move:

type two integers from 1 to 3 separated by a space. First integer – column, second integer – row.

1 3

X			

O		X	

O			

Player X, enter your move:

type two integers from 1 to 3 separated by a space. First integer – column, second integer – row.

3 3

X			
---	--	--	--

```
-----
0 | X |
-----
0 |   | X
```

Player X wins!

Thanks for playing!

Olga-MBP:Tictactoe olga\$ java Main

Welcome to Tic Tac Toe!

Start new game?

Type Y or N:

y

Game started!

```
  |  |
-----
  |  |
-----
  |  |
```

Player X, enter your move:

type two integers from 1 to 3 separated by a space. First integer - column, second integer - row.

1 1

```
X |  |
-----
  |  |
-----
  |  |
```

Player 0, enter your move:

type two integers from 1 to 3 separated by a space. First integer - column, second integer - row.

1 2

```
X |  |
-----
0 |  |
-----
  |  |
```

Player X, enter your move:

type two integers from 1 to 3 separated by a space. First integer - column, second integer - row.

1 3

```
X |  |
-----
0 |  |
-----
X |  |
```

Player 0, enter your move:

type two integers from 1 to 3 separated by a space. First integer - column, second integer - row.

2 2

```
X |  |
-----
0 | 0 |
```

```
-----  
X |  |  |
```

Player X, enter your move:

type two integers from 1 to 3 separated by a space. First integer – column, second integer – row.

3 2

```
X |  |  |
```

```
-----
```

```
0 | 0 | X
```

```
-----
```

```
X |  |  |
```

Player 0, enter your move:

type two integers from 1 to 3 separated by a space. First integer – column, second integer – row.

2 1

```
X | 0 |  |
```

```
-----
```

```
0 | 0 | X
```

```
-----
```

```
X |  |  |
```

Player X, enter your move:

type two integers from 1 to 3 separated by a space. First integer – column, second integer – row.

2 3

```
X | 0 |  |
```

```
-----
```

```
0 | 0 | X
```

```
-----
```

```
X | X |  |
```

Player 0, enter your move:

type two integers from 1 to 3 separated by a space. First integer – column, second integer – row.

3 3

```
X | 0 |  |
```

```
-----
```

```
0 | 0 | X
```

```
-----
```

```
X | X | 0
```

Player X, enter your move:

type two integers from 1 to 3 separated by a space. First integer – column, second integer – row.

3 1

```
X | 0 | X
```

```
-----
```

```
0 | 0 | X
```

```
-----
```

```
X | X | 0
```

It is a draw!

Thanks for playing!

Olgas-MBP:Tictactoe olga\$