

Jack Stillwell
Filippos Vokolos
CS576 Dependable Software Systems
23 August 2018

README

Board Orientation:

1. White starts on 1, Black starts on 8
2. Starting Orientation, in the configuration format, is:
 - a. WHITE: Ra1, Nb1, Bc1, Qd1, Ke1, Bf1, Ng1, Rh1, Pa2, Pb2, Pc2, Pd2, Pe2, Pf2, Pg2, Ph2
 - b. BLACK: Ra8, Nb8, Bc8, Qd8, Ke8, Bf8, Ng8, Rh8, Pa7, Pb7, Pc7, Pd7, Pe7, Pf7, Pg7, Ph7

Configuration Format:

1. Text file, UTF-8 encoding
2. 1st line begins with "WHITE: " followed by any pieces and their locations on the board
3. 2nd line begins with "BLACK: " followed by any pieces and their locations on the board
4. 3rd line begins with "PIECE TO MOVE: " followed by the piece and its location on the board
5. "line" is determined by a "newline" character
6. "begins with" is determined by all characters before ":" on a line
7. all pieces should be separated by a trailing "," and a leading "
8. The final piece / entry on the line should not be followed by a ","

Program Interface:

1. Open a terminal
2. Unzip the project zip
3. navigate to the "src" directory
4. Compile the program "CommandLineInterface" using "javac CommandLineInterface.java"
5. Run the Program with input on the command line "java CommandLineInterface <file name here>.txt"
 - a. Enter the name of the file where the desired configuration format to be processed is stored
6. Output will be displayed in the terminal

Running Tests:

1. NOTE: In testing all classes were compiled before tests were run.

2. From the main directory:
 - a. `javac -cp
junit-jupiter-api-5.0.0.jar:apiguardian-api-1.0.0.jar:opentest4j-1.0.0.jar:src:
src/<TEST FILENAME>.java`
 - b. `java -jar junit-platform-console-standalone-1.3.0-RC1.jar --class-path src
--scan-class-path`
3. The command specified in 2b will run all tests in the test files which have been compiled.

Notes of Program Assumptions:

1. Castling and En passant are not supported as there is no way to know previous moves
2. Testing environments were Java 10 on Manjaro with Arch Linux Kernel 4.9.122-1 and Drexel CS Tux.
3. No known bugs exist in the current version.