Comp2526 A#2b

Purpose: Testing the flexibility of A2a code design with the addition of new features. Working with streaming.

Description: You are to add the following features to your Chess Program (A2a). MOVEMENTS MUST BE DONE POLYMORPHICALLY – marks lost failing to follow good OOP practice.

Proper chess movements according to the chess piece: [final square must be empty]

pawn – can move forward 1 or 2 on that piece's FIRST move, 1 forward afterwards.

Castle/Rook – can move horizontal or vertical unlimited number of spaces as long as the way is clear of other pieces

Bishop – can move on the diagonal unlimited number of spaces as long as the way is clear of other pieces

Knight – moves in an "L" pattern of 2-1 or 1-2 in any direction, the path does not need to be clear

Queen – can move in any direction unlimited number of spaces as long as the way is clear of other pieces

King – can move in any direction 1 space

Turns (players taking turns during game)

Open/Save feature to save and restore a game of chess. This feature is to be performed using <u>Serialization</u>. You will also need to add a menu and use the open/save dialog.

Marking Guide

| Function | | Mark |
|-----------------|------|------|
| chess movements | 6x10 | 60 |
| Turns | | 10 |
| Open/Save | | 30 |

Assignment due February 15 at 11:59pm