C SC 483
Chess and AI: Computation and Cognition

Lecture 9
October 22nd
Task 4 Presentations
HOMEWORK

LECTURE #9
Evaluating Positions based on relative strength of the remaining material.
Note: WHITE TO MOVE IN ALL POSITIONS
PUZZLES: EVALUATING POSITIONS.
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1. e4 c5 2. Nf3 d6 3. d4 cxd4
B6 7. Qd2 0-0 8. f3 Nc6 9. h4
Bd7 10. h5 Qa5 11. hxg6 fxg6
14. Qh6+ Kg8 15. Nxc6 Bxc6
16. 0-0 e6 17. Bc4 Bd7 18. Bb3
Qc7
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PUZZLE #1 (5Pts)

How would you evaluate the position from the Human perspective? What would be the approximate power points given to each of the pawns on the board if we start with a count of 100 points for a normal pawn?
PUZZLE #2 (10 Pts)

How would you evaluate the position from the Human perspective? What would be the approximate power points given to each of the Bishops (all 4) on the board if we start with a count of 300 points for a normal Bishop?
PUZZLE #3 (15Pts)

Black has extra 4 pawns (400pts)
Can white find a way to attack further and possibly checkmate the Black King?
How would you evaluate the position from the Human perspective?
What would be the approximate power points given to each piece aiming or defending the Black King?

Note: Only use evaluation methods for the pieces that directly deal with the squares around the Black King, such as E8, F8, F7, G7, G8, H7, H8, F6, G6, H6.