Overall input & output:

(* a record of board, (* To transposition table (which contains States that occured), and history table (extremely good / bad States from playing history, or by hard coding), alive pieces, previous moves (up to N moves. for undo & panetty), predicted moves, undo (whether the player has undo once or not)*).

board: piece array array; transposition-table: (hashcode, (move-sequence)) hashtable; history-table: same as transposition-table; alive-pieces: (piece, position) hash table; previous-moves: move-sequence; predicted-moves: move-sequence; undo: boolean)

(* Type needed: O Position: (x,y).

prece (11 1), color).

one character

(3) hashwoode we need to write our
own hash function to hash a state

AD move-sequence. a list of move of type ((x,y))

of type ((X1.191), (X2.192), piece_captured)

(overall_record option ...).

More Generation: produce a list of (all) possible & legal movements.

I for each piece on the moving side, can their respective movement generation helper function.

Helperfunctions: one for each of the following: 117 Pavin red 27 Pavin Hack 25 Canon 247 King (25) Advisor 267 Elephant 277 Rook 187 Horse

2) In each helper function above,
first, generate possible moves by the rule one-by-one
second, check if the move is legal [helper function] by checking:
117 if there is a piece of its own side at the destination
127 two kings are not directly facing each other

37 not repeating certain sequence of moves = 3 times: (50 need to Store 3x2x2=12 previous moves; how about 数题一条连例判决?)

of yes, just follow the prediction if there is one.

July of Contract of the State of

Search. return the best more sequence with K steps, where K is the desired depth. and look into the histon Deepening AlphaBeta Algorithm table & transposition table. If exists, 217 After 1st round of move generation, search through an of them and evaluate their result, order by result from high to low. starting from the higher order ones, generate (mit) the stops for a not stop evaluate and save the barchmark the worst case for ... 23> Go to the next highest nth step, generate its (n+1) th steps, evaluate one-byone. If one of the (nti) th step is evaluated to be lower than the banchmark, no need to search the rest of moves for this nth step. x Repeat <3> until the last save the lowest score of all the (n+1)th steps, that are nth steps is evaluated. evaluated as the score of this nth step. If it is 4) Order the 11th > Mth) th step higher than the benchmark, update penchmark to this value. Record down this nth -> (n+1) th min sequence. results from is by their scores from high to low. nth->(n+1)th-> (n+k) th is generated, and Repeat 472 47: until K = desired depth. tualuation: terum a score for a state Possible Kelper functions: 1 Material Balance 2) Mobility & Board Control 3 Development 4 King sofety Movement: > move a piece, update the board and pieces info, previous_moves, -> check if it ends game yet. *> undo a move. (e.g. can undo only once; then need an undo flag in overall-record).