

# main function

input

puzzles\_database.txt

menu

search manager

display manager

undo delete

output

puzzle

data

key

FEN

Moves

Rating

RatingDeviation

Popularity

NbPlays

Themes

GameUrl

OpeningTags

function

getter

setter

key

• Hash function

• Collision resolution functions

index

hashtable

data

dynamic hashtable

• Statistics

o load factor

o number of collisions (total)

o longest collision path

function

• Search

• Insert

• Delete

• Hash function

• Collision resolution functions

BST

data

node

key

index

left pointer

right pointer

nodecount

Insert

Delete

Traversal

o Inorder Traversal

o Indented Tree