

## api.h

init\_db / shutdown\_db

Index Manager APIs

## log\_util.h

Print Functions for  
Debugging

## bpt.h

Page Loader/Saver,  
Checker, Updater

Find

Insertion

Deletion

## file\_util.h

TableManager

FileUtil

## file.h

Disk Space Manager APIs

## page.h

Constants,  
Type definitions

page\_t

HeaderPage  
(header, free)

NodePage (leaf, internal)

page\_header\_t

Record

Edge

## Tests

api\_test

file\_test

page\_test

test\_util

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## buffer.h

Buffer Storage

Buffer Structure

Index Allocator

Page Index Mapper

Buffer Controller

Buffer Manager  
APIs

## file\_util.h

TableManager

FileUtil

## file.h

Disk Space Manager APIs

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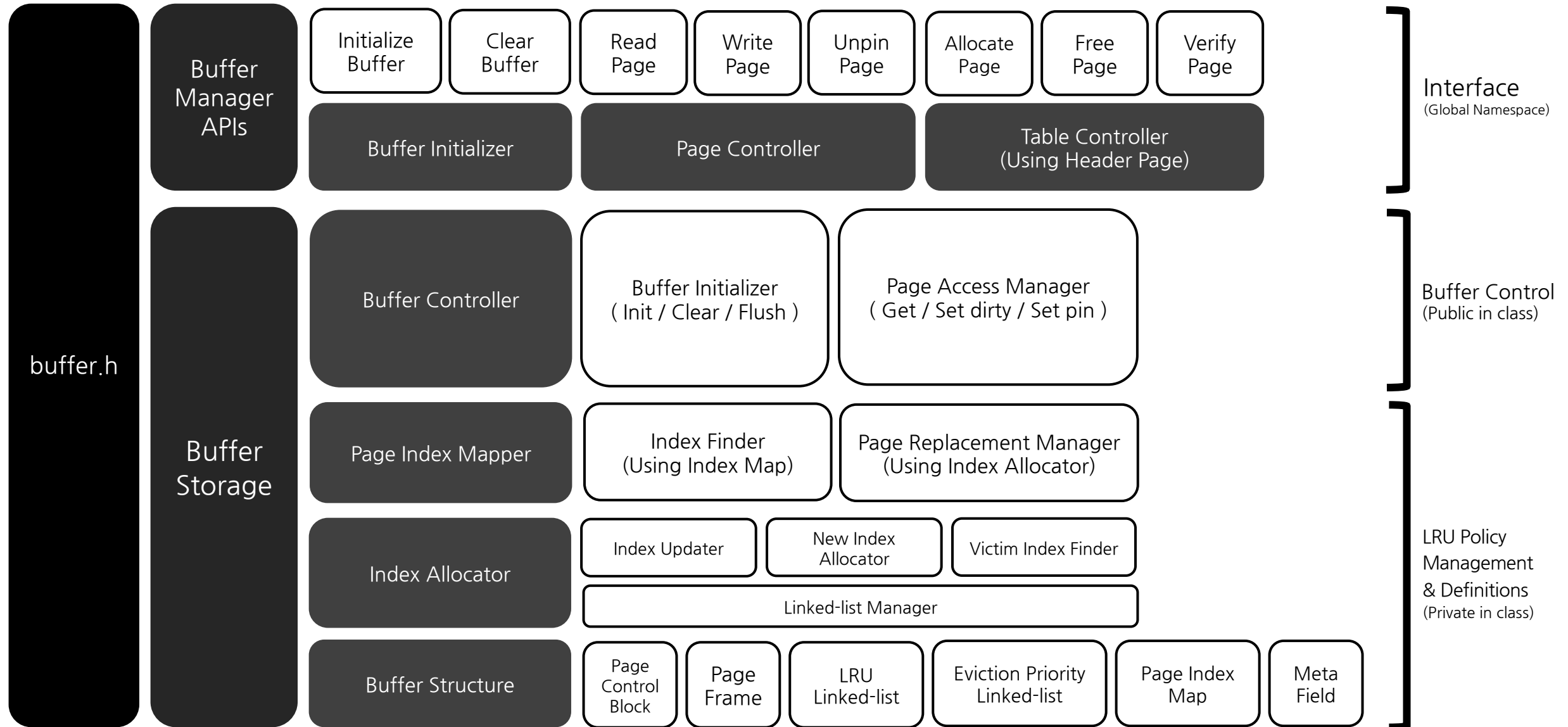
## Tests

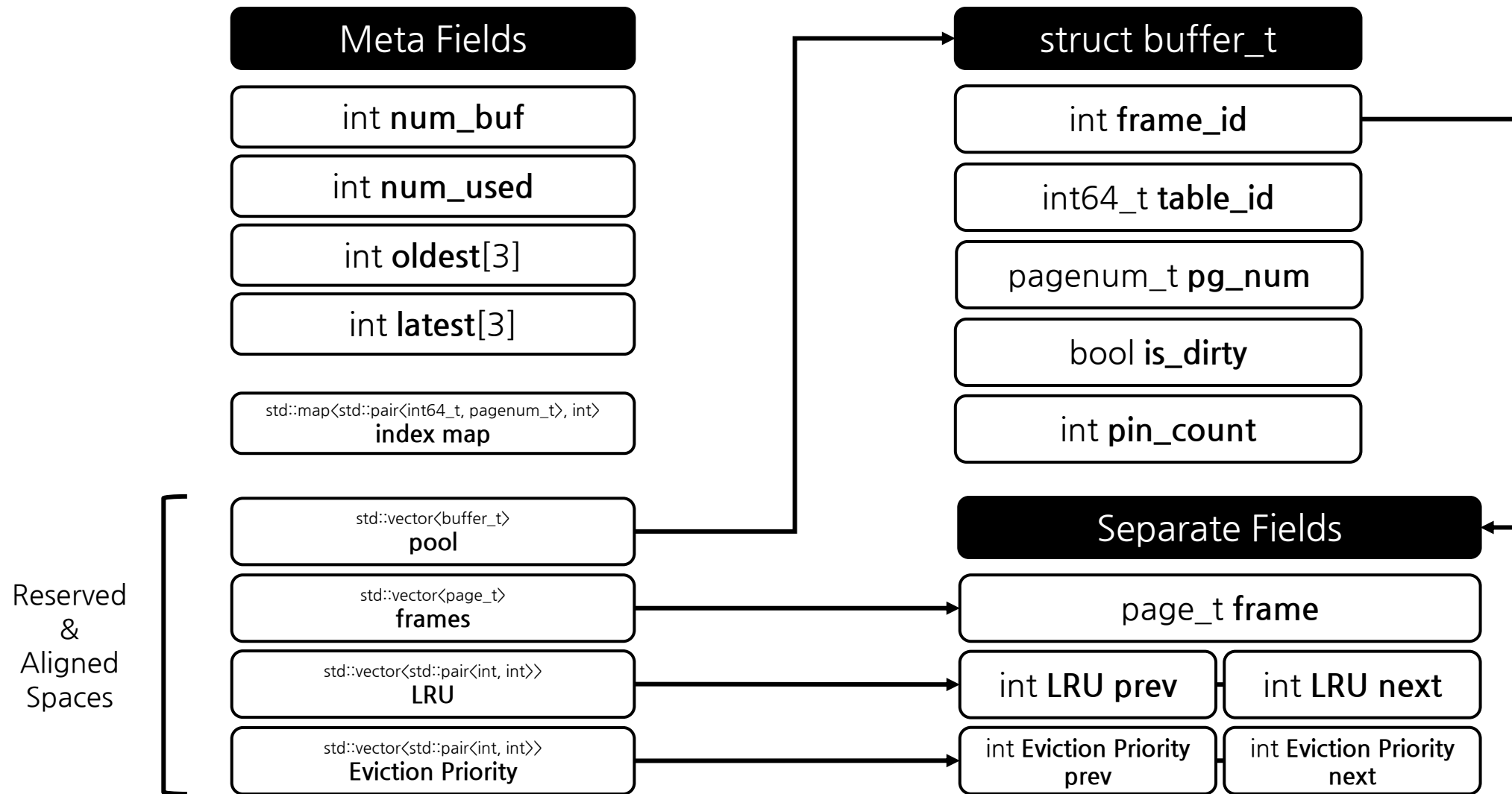
api\_test

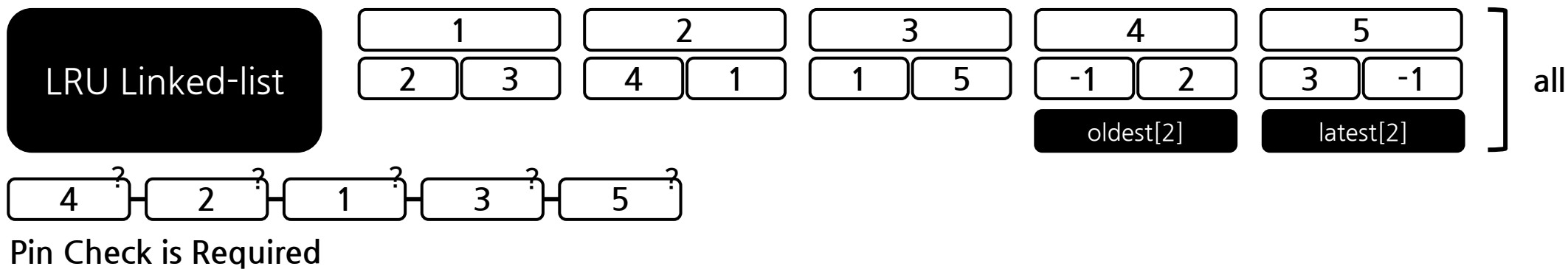
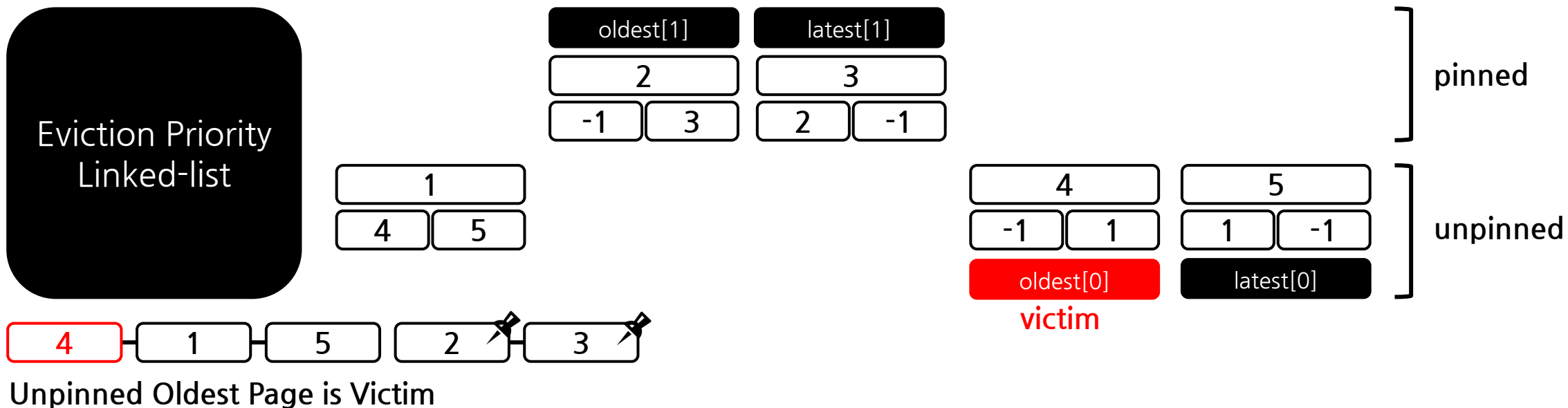
file\_test

page\_test

test\_util







## Lock Table APIs

init\_lock\_table    lock\_acquire    lock\_release

## Global Variables

lock\_table\_t lock\_table    pthread\_mutex\_t lock\_table\_latch

### Hash Function

### Lock Structure

lock\_t\* prev

lock\_t\* next

lock\_table\_entry\_t\* sentinel

pthread\_cond\_t\* cond

### Lock Table Entry

append\_lock

remove\_lock

int64\_t table\_id

int64\_t key

lock\_t\* tail

lock\_t\* head



