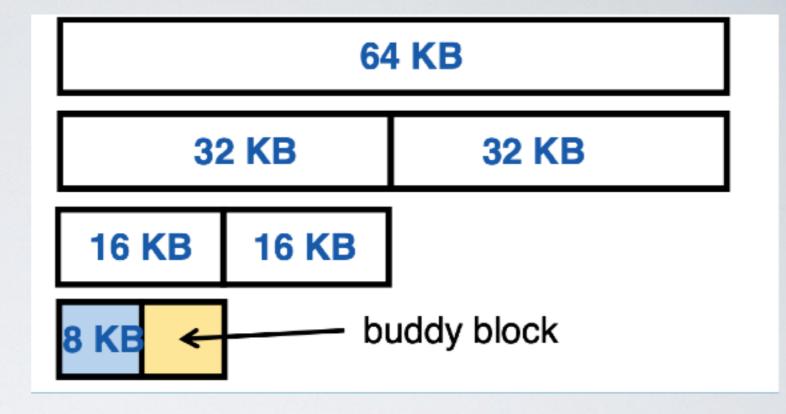
Buddy Allocation



→ Allocate blocks in 2^k

Data structure

Maintain n free lists of blocks of size $2^0, 2^1, ..., 2^n$

Code

- recursively divide larger blocks until reach suitable block
- insert buddy blocks into free lists
- · upon free, recursively coalesce block with buddy if buddy free
- → the addresses of the buddy pair only differ by one bit

Example

